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Annual Summary of Fish Harvesting Activities

Western Canadian Freshwater Fisheries

Volume 9

1990-1991

Pêches et Océans
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Annual Summary of Fish Harvesting Activities

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1990-1991

Freshwater Institute
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FOREWORD

The Freshwater Fish Marketing Corporation (FFMC) and the Department of Fisheries and Oceans, Central and Arctic Region (DFO) have, for about two decades, co-operated in the development and maintenance of a commercial fisheries data base. The harvest data are developed from the FFMC's purchase ticket, which records the catch and payment for every sales transaction between individual fishermen and the FFMC. The resulting data base provides comprehensive information on the commercial fishery (ie. fishermen, lakes, species, sizes of fish, weeks, months, seasons, etc.). These data have been used by the FFMC, DFO, and the fisheries management agencies of the four participating provinces in the FFMC's area of operation. The participating jurisdictions include Manitoba, Saskatchewan, Alberta, the Northwest Territories, and Ontario (only parts of the northwestern region). Data are also provided on request to other federal, provincial or territorial agencies, universities, and others interested in fisheries.

The data provided in this report are aggregate and are intended to provide those interested in commercial fisheries with a quick reference to summarized information on Western Canada's freshwater fishery. The focus is on fish harvesting activities for the fiscal period May 1, 1990 to April 30, 1991. In addition, some marketing and historical trend information is included.

Section 1 of the report gives harvesting and marketing data for the entire FFMC region. Section 2 provides a comparative analysis showing the share of harvesting activities of each jurisdiction in the region. The remaining sections (3 through 7) focus on each jurisdiction separately.

Persons interested in obtaining more information on Western Canadian freshwater fisheries may contact:

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(Disponible en français)

1990-1991
HIGHLIGHTS

- 5 694 persons were engaged in fish harvesting operations.
- 17 744 tonnes of fish were harvested.
- Fishermen were paid $21 116 000 for this harvest.
- The estimated marketed value of the catch was $45 315 000.
- Manitoba fishermen caught 63% of the harvest and received 71% of the landed value.
- Saskatchewan fishermen caught 17% of the harvest and received 12% of the landed value.
- Alberta and Northwest Territories fishermen caught 11% and 9% of the harvest and received 7% and 10% of the landed value respectively. Fishermen from Northwestern Ontario caught less that 1% of the harvest and received less 1% of the landed value.
- Whitefish (35%), pickerel (22%), northern pike (14%) and sauger (12%) were the major species harvested.
- Pickerel accounted for 36% of the landed value, retaining its role as the species most critical to the economics of the commercial fishing industry.
- Whitefish accounted for 23% of the landed value, while sauger accounted for 16%. All other species combined represented 25% of the total landed value.
- Total landings were down 2 919 tonnes or 14% relative to the previous fiscal period.
- Landed value decreased 16% from the 1989-90 fiscal period. The largest decreases in landed values were for whitefish (22%), lake trout (70%) and sauger (22%).
- The average price paid to fishermen decreased from $0.99 to $0.77 per kilogram for whitefish, from $0.88 to $0.48 per kilogram for lake trout, and from $1.64 to $1.59 per kilogram for sauger. Average prices increased from $1.87 to $1.92 for pickerel and from $0.64 to $0.93 for northern pike.
- 12 566 tonnes of fish products were marketed with a total sales value of $49 884 000.

GLOSSARY OF TERMS

Crew Hand

A crew hand is an individual hired by the self-employed fishermen. Crew hands may or may not require a commercial fishing licence, depending on the area of jurisdiction.

Delivery Point

A delivery point is a fish facility where fishermen sell their catches to the FFMC or agents of the FFMC.

Fiscal Year

A fiscal year refers to the period from May 1 through to April 30 of the subsequent year. There are two fishing seasons in a fiscal year. Thus, 1990-91 refers to the period May 1, 1990 to April 30, 1991. The summer season, which is the open water fishery, begins May 1 and ends October 30. The winter season is an ice fishery that begins when the lakes freeze, around November 1, and continues until spring thaw, usually about April 30.

Gillnetters

Gillnetters are boats that range from 10 to 14 metres (38 to 50 feet). They generally have steel hulls, although some are made of aluminium or wood. These boats may have mechanical net-lifting equipment, refrigerated storage areas, and accommodations that permit operation in remote areas. These types of fishing enterprises usually have 2 to 3 hired crew members, in addition to the owner/operator.

Landed Quantity

The landed quantity is an estimate reflecting the weight of fish marketed to the FFMC by commercial fishermen. (Federal and provincial law requires fishermen to sell their catches, excluding sales made directly to final consumers, to the FFMC.) This estimate expresses the catch as if it were all harvested in one form, the live weight equivalent. Because fishermen actually sell fish in a variety of forms (round, gutted and gutted with head off), conversion factors are used to determine the live weight equivalent.

Landed Value

The landed value represents the payments received by fishermen for fish sales to the FFMC. The payments are generally recorded f.o.b. lakeside although in some cases, especially in the north, payments are f.o.b. a central delivery point which may be some distance from the lake where fish are harvested. Fishermen receive both initial and final payments for their catches, the final payment dependent on the FFMC's net earnings for the period. The landed values reported here include both the initial and final payments.

Marketed Value

The marketed value estimates the value of the year's catch as the product of the landed quantity of each species and the average market selling price for the year. Because the estimate neglects the carryover of inventory from year to year, it differs from the FFMC's statement of annual fish sales.

Nominal Dollars

Nominal dollars are the current dollar amounts paid or received at the time of harvest or sale. Nominal dollars are not adjusted for inflation.

Product Weights

Product weights are the actual weights of the final product sold. Fish are sold in a variety of products forms (round, dressed fillets, deboned blocks, etc.), and product weights should not be confused with the live equivalent weights.

Self-Employed Fishermen

A self-employed fisherman is generally the owner/operator of the fishing business. All self-employed fishermen must be licensed for commercial fishing. Note that in the tables reporting the distribution of landed values the "rule of three" is used to protect the identities of fishermen who fall within an income interval that contains three or less fishermen. In such cases, the symbol <4 is used.

Skiff

The term skiff is used to describe all small open boats ranging in size from about 4 to 7 metres (14 to 24 feet). These are generally powered by either one or two outboard motors or inboard motors with stern drives. Canoes powered by outboard motors are also included as skiffs.

Snow Vehicles

The term snow vehicles is used to describe bombardiers, trucks, and other vehicles, except power toboggans, that are used to travel and fish on frozen lakes.

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SECTION 1

WESTERN CANADIAN FRESHWATER FISHERIES

SUMMARY

Fig. 1.1
Total Landings by Species
1990/91 Total = 17 744 tonnes

Fig. 1.2
Total Landed Value by Species
1990/91 Total = $21 116 000

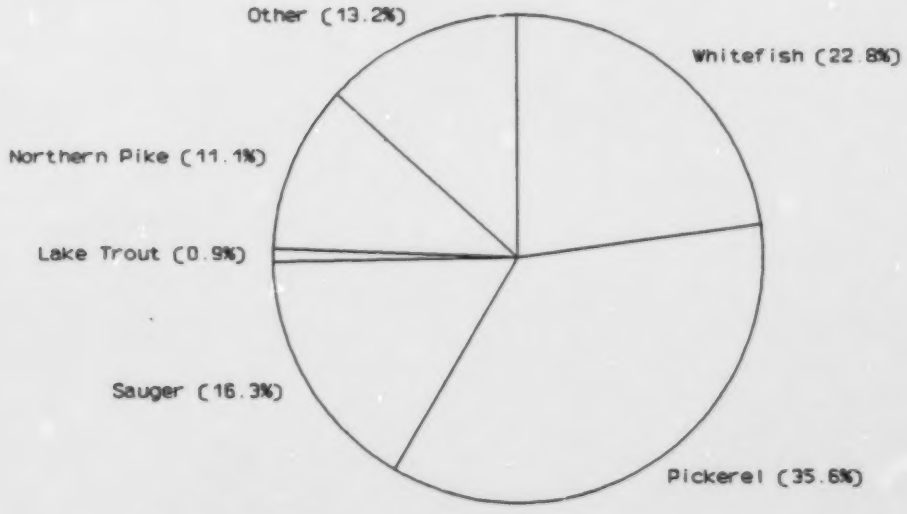

Table 1.1 LANDINGS, LANDED AND MARKETED VALUES BY SPECIES WESTERN CANADIAN FRESHWATER FISHERIES, 1990/91.

(quantities in live weight equivalent tonnes and values in $000s)

Species	Quantity	Landed Value	Marketed Value
Whitefish	6201	4763	11766
Whitefish Roe	9	50	305
Pickerel	3913	7528	15497
Sauger	2169	3449	7505
Lake Trout	396	191	681
Northern Pike	2526	2354	4950
Tullibee	59	27	92
Perch	460	1396	2164
Mullet	1006	313	694
Carp	694	217	423
Arctic Char	70	372	524
Inconnu	62	112	169
Sturgeon	7	64	83
Others	173	281	462
Total	17744	21116	45315

Table 1.2 ESTIMATED NUMBER OF PERSONS ENGAGED IN FISH HARVESTING OPERATIONS, WESTERN CANADIAN FRESHWATER FISHERIES, 1990/91.

Season	Self-employed	Crew Hands	Total
Summer Only	1241	954	2195
Winter Only	1211	930	2141
Both Seasons	768	590	1358
Total	3220	2474	5694

Table 1.3 ESTIMATED NUMBER OF FISHING VESSELS WESTERN CANADIAN FRESHWATER FISHERIES, 1990/91

Vessel Type	Number
Skiffs	1896
Gillnetters	113
Snow Vehicles	948
Power Toboggans	920
Total	3877

Fig. 1.3
Self-employed Fishermen by Season
1990/91 Total = 3 220

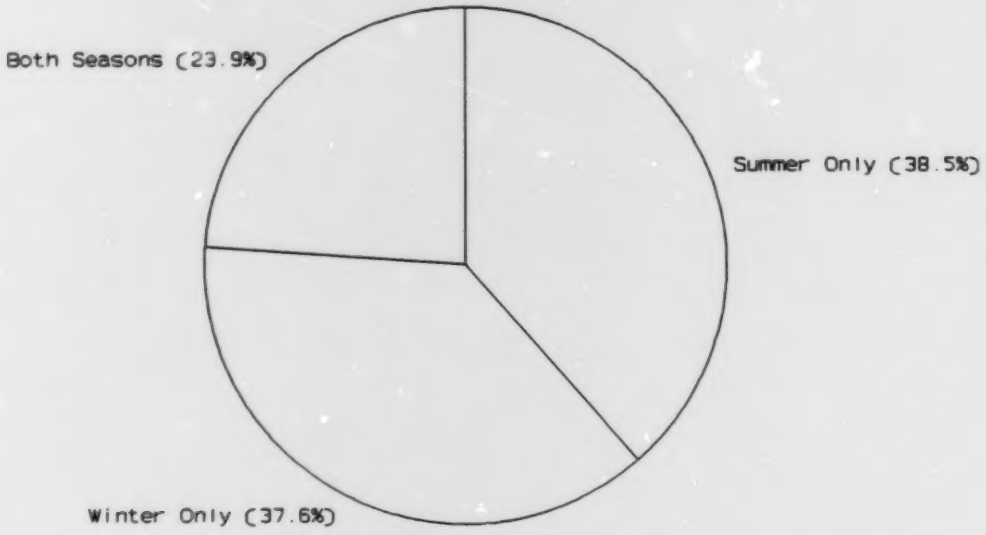

Table 1.4

LANDINGS, LANDED VALUES AND FISHING EFFORT, BY SELF-EMPLOYED FISHERMEN
WESTERN CANADIAN FRESHWATER FISHERIES, 1990/91.

Landed Value Range	Number of Fishermen	Averages Per Fishermen			
		Deliveries	Weeks	Weight	Total Payments
$0-$2,000	1164	5.0	3.5	669	826
$2,001-$4,000	567	19.6	7.7	2231	2867
$4,001-$6,000	345	25.5	9.8	3552	4957
$6,001-$8,000	281	32.9	11.9	4840	6903
$8,001-$10,000	192	37.8	13.7	6154	9004
$10,001-$14,000	286	43.4	14.4	8023	11926
$14,001-$20,000	211	53.2	18.0	11061	16739
$20,001-$30,000	112	54.3	18.1	15715	23310
$30,001-$40,000	26	54.8	22.1	25332	33200
$40,001+	36	84.9	26.9	55595	75982
Total	3220	24.4	9.1	4619	6558

Fig. 1.4
Distribution of Landed Values among Self-Employed Fishermen
Western Canada, 1990/91

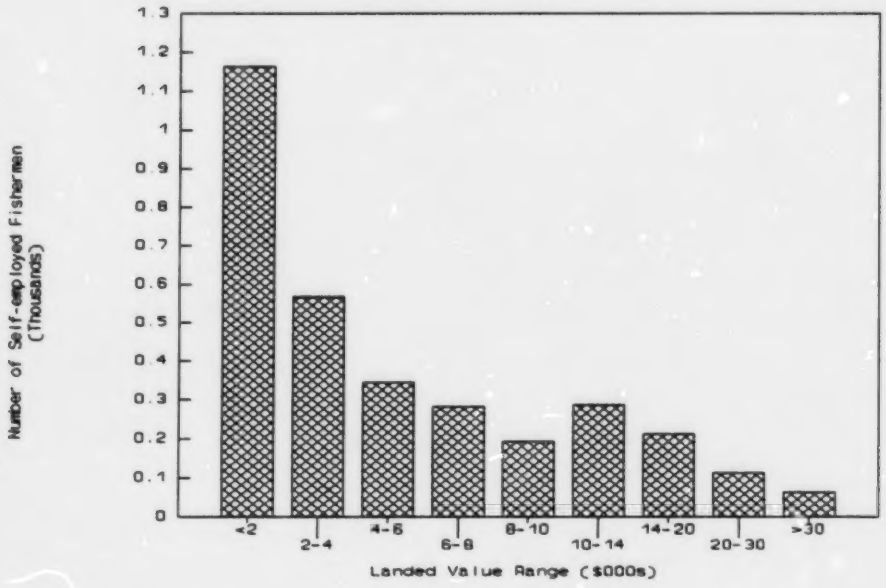

Table 1.5
DISTRIBUTION OF LANDED VALUES AMONG SELF-EMPLOYED FISHERMEN,
WESTERN CANADIAN FRESHWATER FISHERIES TREND.

Landed Value Range	90/91	89/90	88/89	87/88	86/87	85/86	84/85	83/84	82/83	81/82
(nominal dollars)										
$0-$2,000	1164	1235	983	787	1338	1102	916	1030	1459	1021
$2,001-$4,000	567	573	603	510	582	593	526	470	638	520
$4,001-$6,000	345	365	389	373	413	360	336	322	416	325
$6,001-$8,000	281	322	340	271	280	270	346	311	245	294
$8,001-$10,000	192	199	236	259	206	230	240	188	204	212
$10,001-$14,000	286	343	361	382	288	309	331	304	232	298
$14,001-$20,000	211	266	348	360	185	287	274	211	170	255
$20,001-$30,000	112	146	234	346	72	163	172	143	71	171
$30,001-$40,000	26	29	81	144	15	31	52	28	17	56
$40,001+	36	45	73	110	34	51	49	30	22	42
Total	3220	3523	3648	3542	3413	3396	3242	3037	3474	3194

Fig. 1.5
Landings by Major Lakes
1990/91 Total = 17 744 tonnes

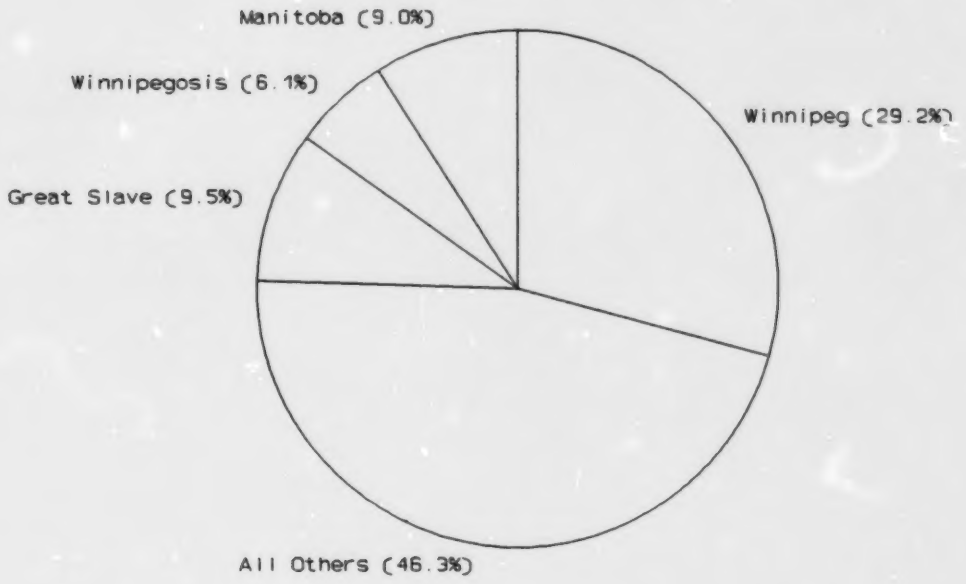

Fig. 1.6
Landed Values by Major Lakes
1990/91 Total = $ 21 116 000

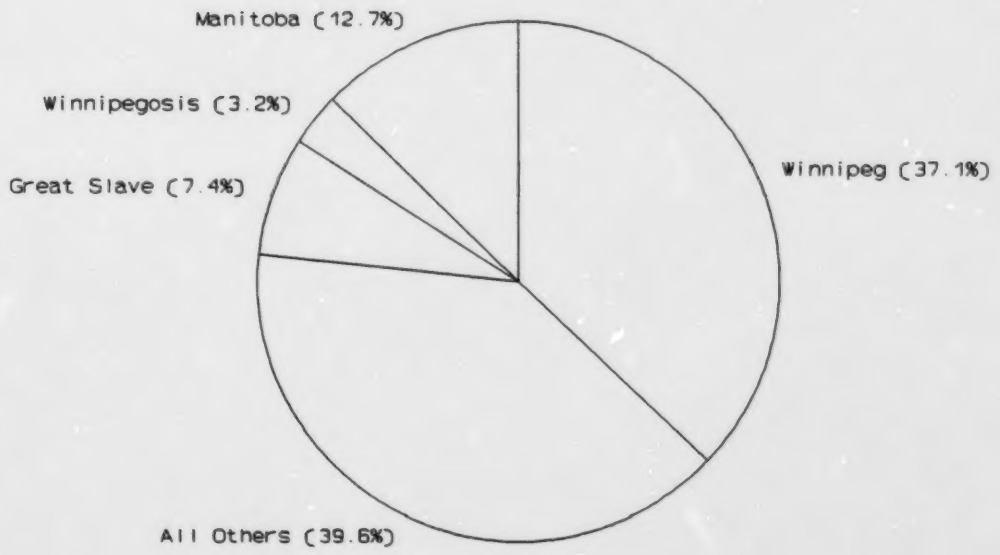

Table 1.6

LANDINGS BY MAJOR WESTERN CANADIAN LAKES, 1990/91.
(live equivalent tonnes)

Species	Winnipeg	Manitoba	Winni-pegosis	Great Slave	All Others	Total
Whitefish	1101	13	71	1332	3695	6210
Pickerel	1952	308	68	33	1553	3913
Sauger	1812	343	1	0	13	2169
Lake Trout	0	0	0	67	329	396
Northern Pike	94	53	167	170	2043	2526
Tullibee	0	0	0	0	59	59
Perch	71	324	53	0	11	460
Mullet	1	116	527	0	362	1006
Carp	35	434	187	0	38	694
Arctic Char	0	0	0	0	70	70
Inconnu	0	0	0	60	1	62
Sturgeon	0	0	0	0	7	7
Others	124	0	2	18	28	173
Total	5189	1591	1075	1680	8210	17744

Table 1.7

LANDED VALUES BY MAJOR WESTERN CANADIAN LAKES, 1990/91.
($000s)

Species	Winnipeg	Manitoba	Winni-pegosis	Great Slave	All Others	Total
Whitefish	987	13	60	1218	2536	4813
Pickerel	3560	724	139	55	3050	7528
Sauger	2800	626	1	0	21	3449
Lake Trout	0	0	0	30	161	191
Northern Pike	86	53	162	149	1905	2354
Tullibee	0	0	0	0	27	27
Perch	196	1091	75	0	35	1396
Mullet	0	32	178	0	103	313
Carp	13	132	62	0	10	217
Arctic Char	0	0	0	0	372	372
Inconnu	0	0	0	109	2	112
Sturgeon	0	0	0	0	64	64
Others	200	0	4	6	72	281
Total	7842	2672	679	1567	8356	21116

Fig. 1.7
Landings Trend
Western Canadian Freshwater Fisheries

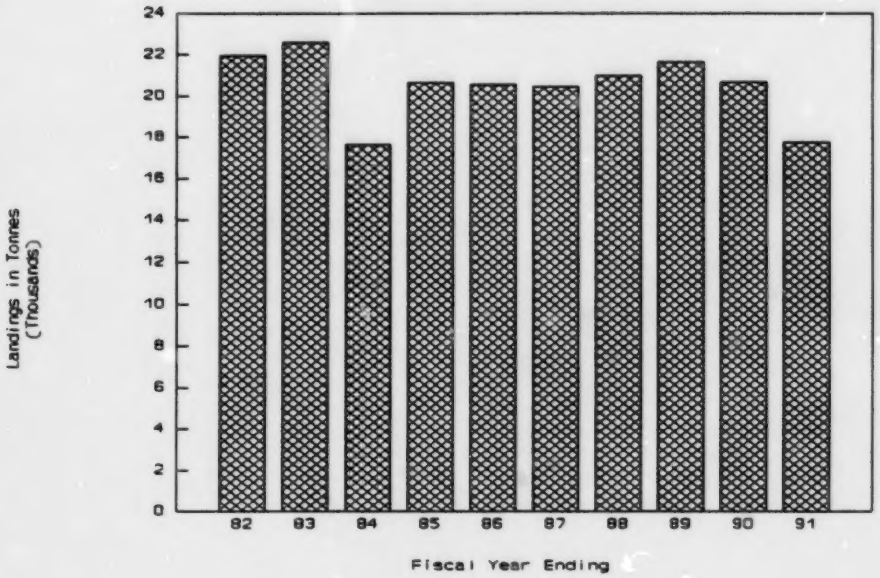

Table 1.8

WESTERN CANADIAN FRESHWATER FISHERIES
TEN YEAR LANDINGS TREND.
(live weight equivalent tonnes)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	6577	6560	5867	7034	7345	8026	6819	7370	6199	6210
Pickerel	5224	5366	4199	5102	4752	4353	3691	4600	4938	3913
Sauger	1769	1476	2220	2102	1629	1429	2752	2761	2686	2169
Lake Trout	602	445	340	533	635	726	653	789	749	396
Northern Pike	3883	3956	2667	3211	3437	3438	3937	3660	3338	2526
Tullibee	294	228	188	175	178	236	261	231	98	59
Perch	100	107	124	218	163	118	310	598	511	460
Mullet	2378	3654	1449	1470	1812	1309	1822	993	1562	1006
Carp	958	569	450	573	341	583	509	414	325	694
Arctic Char	76	68	52	62	68	67	59	89	82	70
Inconnu	40	18	24	70	74	75	63	56	102	62
Sturgeon	14	21	19	18	26	18	14	12	9	7
Others	28	108	34	50	82	64	66	48	65	173
Total	21944	22576	17632	20616	20541	20441	20956	21622	20663	17744

Fig. 1.8
Landed Values Trend
Western Canadian Freshwater Fisheries

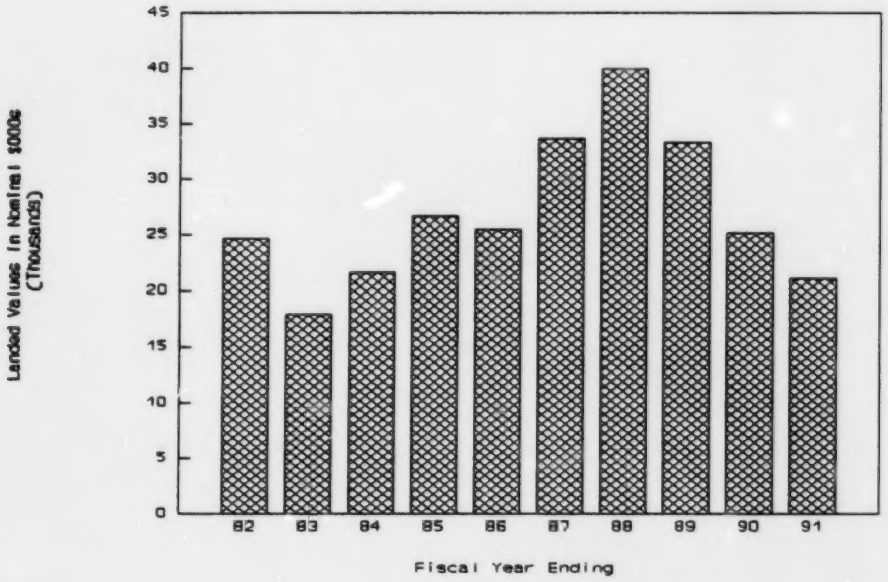

Table 1.9

WESTERN CANADIAN FRESHWATER FISHERIES
TEN YEAR LANDED VALUES TREND.
(nominal $000s)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	5025	4550	4503	6682	6201	6500	8200	8691	6140	4813
Pickerel	12446	7859	9924	12114	11262	16326	16530	12387	9247	7528
Sauger	3224	2154	3523	2831	2881	4095	6956	4967	4404	3449
Lake Trout	409	261	504	737	660	710	920	950	658	191
Northern Pike	2181	1671	1816	2465	2710	4048	4603	3350	2146	2354
Tullibee	110	80	65	122	120	140	164	114	41	27
Perch	274	175	494	589	532	461	999	1553	1136	1396
Mullet	344	624	238	316	323	337	537	297	461	313
Carp	181	107	80	115	63	169	148	112	94	217
Arctic Char	313	281	307	380	320	411	511	571	444	372
Inconnu	49	14	41	112	116	141	126	104	148	112
Sturgeon	68	87	125	145	234	182	139	125	87	64
Others	12	37	17	35	64	102	104	101	143	281
Total	24637	17900	21638	26642	25485	33620	39941	33321	25148	21116

Fig. 1.9
Landings Trend
By Major Canadian Lakes

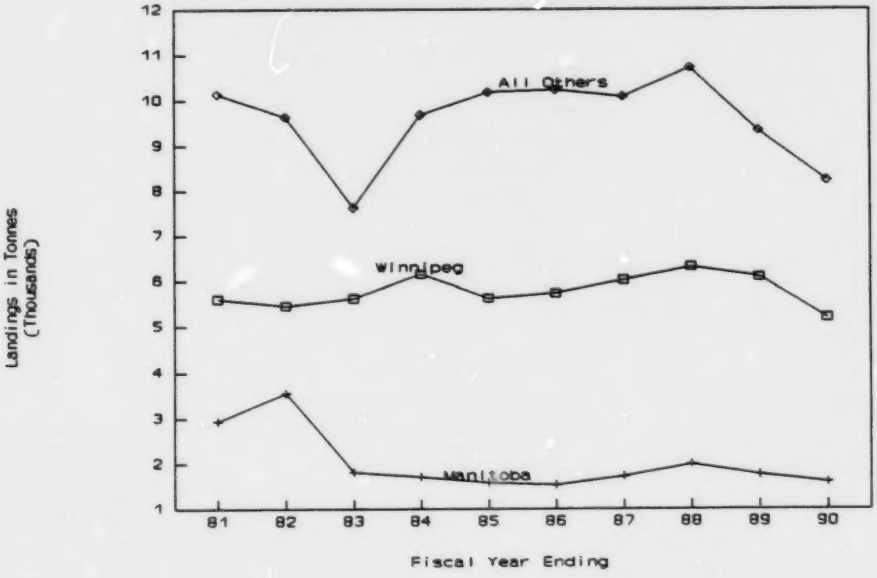

Fig. 1.10
Landed Values Trends
By Major Western Canadian Lakes

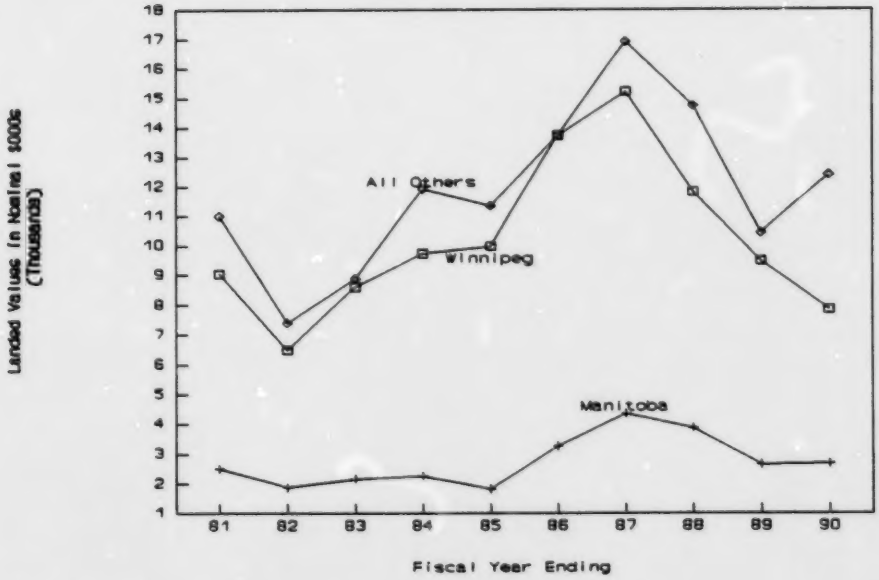

Table 1.10

TEN YEAR LANDINGS TREND BY MAJOR WESTERN CANADIAN LAKES.

(live weight equivalent tonnes)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Winnipeg	5605	5453	5617	6147	5620	5726	6017	6309	6083	5189
Manitoba	2934	3545	1815	1713	1587	1528	1726	1988	1757	1591
Winnipegosis	1954	2597	1592	1873	1814	1282	1544	1075	1694	1075
Great Slave	1304	1356	987	1208	1341	1669	1583	1530	1800	1680
All Others	10147	9625	7621	9676	10179	10235	10086	10720	9329	8210
Total	21944	22576	17632	20616	20541	20441	20956	21622	20663	17744

Table 1.11

TEN YEAR LANDED VALUES TREND BY MAJOR WESTERN CANADIAN LAKES.

(nominal $000's)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Winnipeg	9039	6484	8604	9735	9975	13736	15219	11804	9464	7842
Manitoba	2497	1874	2155	2261	1817	3263	4361	3875	2634	2672
Winnipegosis	984	1143	1235	1514	1078	1244	1345	914	1049	679
Great Slave	1117	997	763	1216	1283	1645	2100	1998	1591	1567
All Others	11000	7402	8881	11917	11332	13732	16915	14730	10410	12388
Total	24637	17900	21638	26642	25485	33620	39941	33321	25148	21116

Fig. 1.11
Sales Volume by Major Product
1990/91 Total = 12 566 tonnes

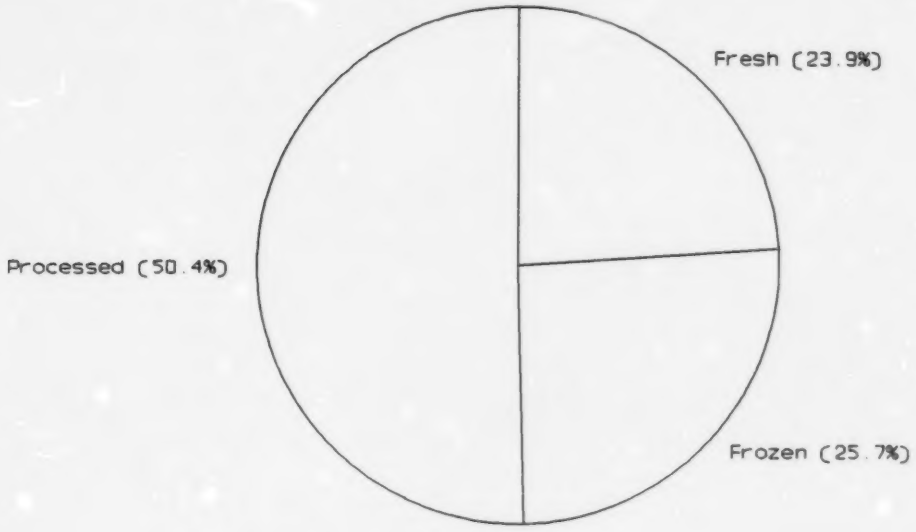

Fig. 1.12
Sales Values by Major Product
1990/91 Total = $49 884 000

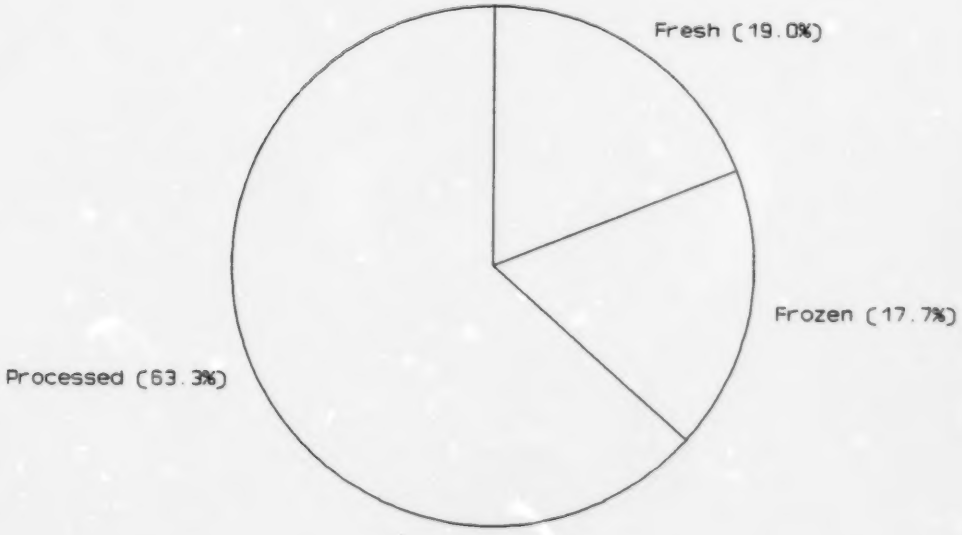

Fig. 1.13
Domestic Sales by Species
1990/91 Total = 2 409 tonnes

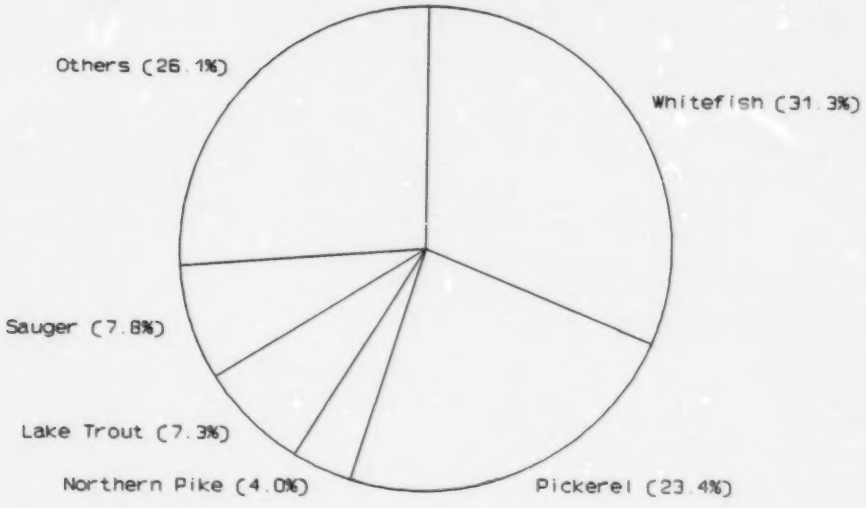

Fig. 1.14
Export Sales by Species
1990/91 Total = 10 157 tonnes

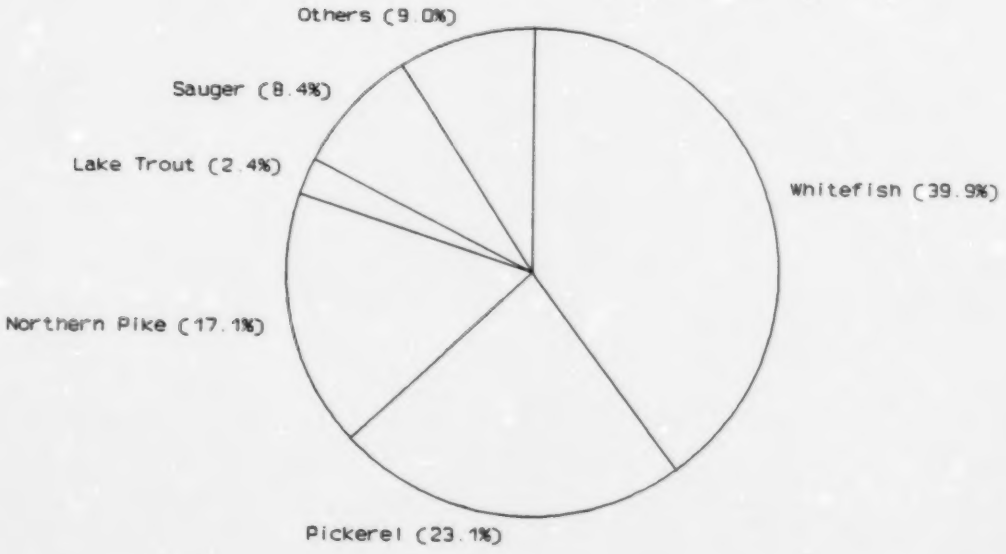

Table 1.12

SALES BY MAJOR PRODUCT TYPE.
1990/91
(product weights in tonnes)

Species	Fresh	Frozen	Processed	Total
Whitefish	1439	2047	1323	4809
Pickerel	844	63	2008	2915
Sauger	0	5	1035	1041
Northern Pike	98	531	1202	1831
Lake Trout	132	260	31	423
Tullibee	0	52	0	52
Perch	409	0	8	417
Mullet	10	23	555	587
Carp	20	60	173	253
Arctic Char	9	47	0	56
Inconnu	5	43	0	48
Sturgeon	0	5	0	5
Others	42	88	0	130
Total	3006	3225	6336	12566

Table 1.13

DOMESTIC AND EXPORT SALES.
1990/91
(product weights in tonnes)

Species	Domestic	Export
Whitefish	754	4054
Pickerel	565	2351
Sauger	188	853
Northern Pike	96	1735
Lake Trout	176	247
Tullibee	35	17
Perch	348	70
Mullet	34	553
Carp	32	220
Arctic Char	49	7
Inconnu	10	37
Sturgeon	0	5
Others	122	8
Total	2409	10157

SECTION 2

REGIONAL ANALYSIS

Fig. 2.1
Landings by Region
1990/91 Total = 17 744 tonnes

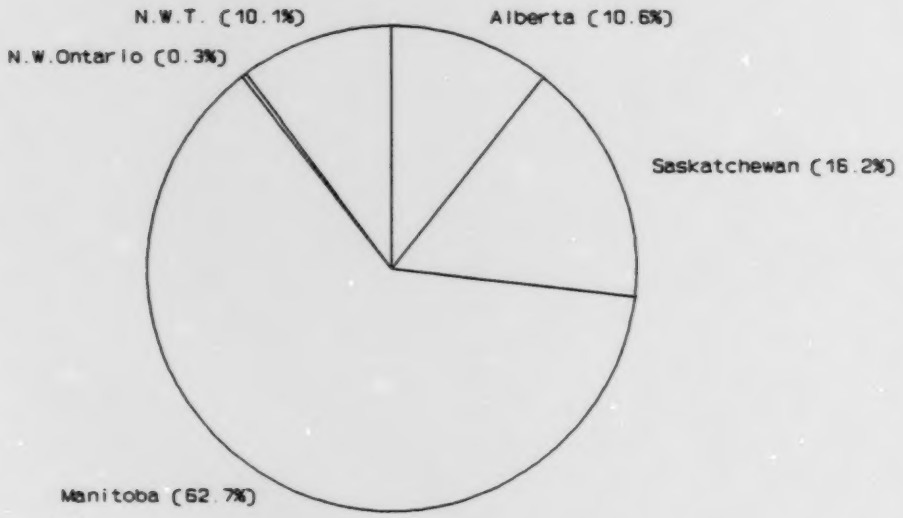

Fig. 2.2
Landed Values by Region
1990/91 = $21 116 000

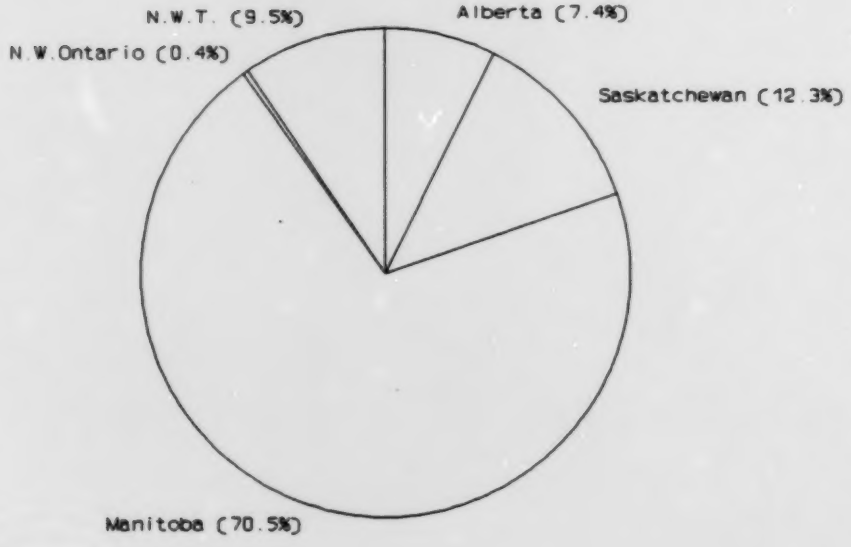

Table 2.1

LANDINGS, LANDED AND MARKETED VALUES
BY REGION, 1990/91
(live weight equivalent tonnes and $000s)

Province	Landings	Landed Value	Marketed Value
Alberta	1890	1554	3577
Saskatchewan	2880	2598	5972
Manitoba	11121	14885	31345
N.W.Ontario	60	79	188
N.W.T.	1794	2000	4231
Total	17744	21116	45313

Table 2.2

ESTIMATED NUMBER OF PERSONS ENGAGED IN FISH HARVESTING
OPERATIONS, BY SEASON FISHED AND REGION, 1990/91.

Season	Alta.	Sask.	Man.	Ont.	NWT	Total
Winter Only						
Self-employed	150	267	766	6	23	1211
Crew hands	111	167	613	4	24	930
Summer Only						
Self-employed	85	273	775	20	90	1241
Crew hands	63	170	620	13	93	954
Both Seasons						
Self-employed	81	88	562	8	29	768
Crew hands	60	55	450	5	30	590
Total	550	1020	3786	56	289	5694

Fig. 2.3
Fishermen by Region
1990/91 Total = 3 220

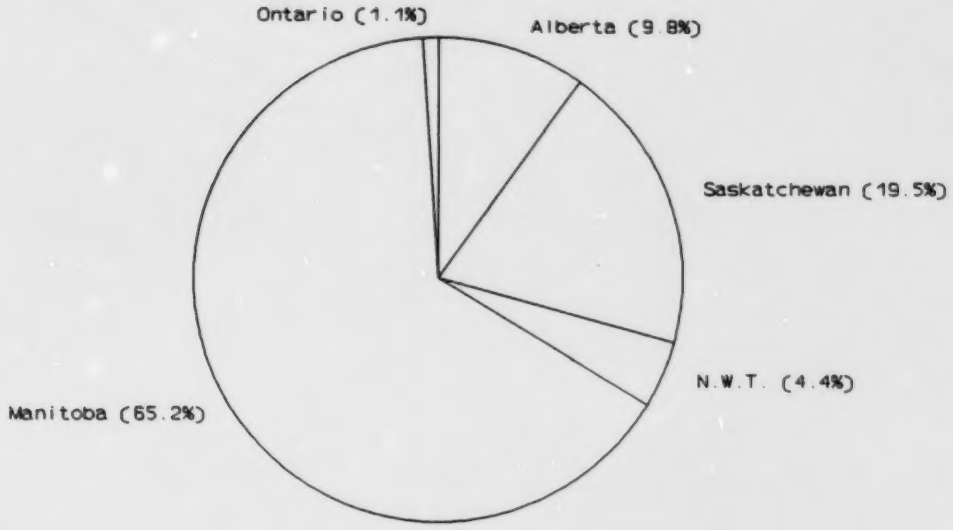

Fig. 2.4
Fishermen by Season and Region
1990/91 Total = 3 220

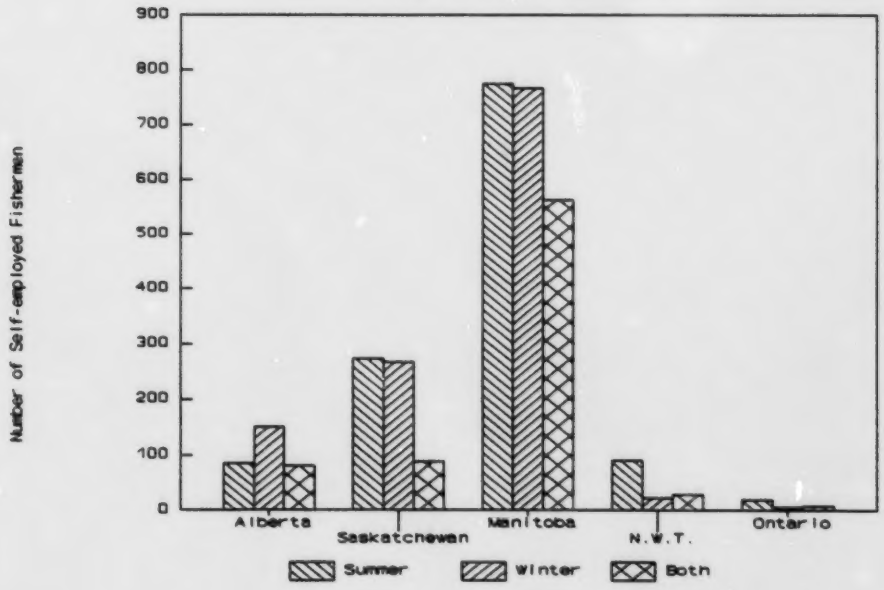

Fig. 2.5
Distribution of Landed Values
by Fishermen and Region, 1990/91

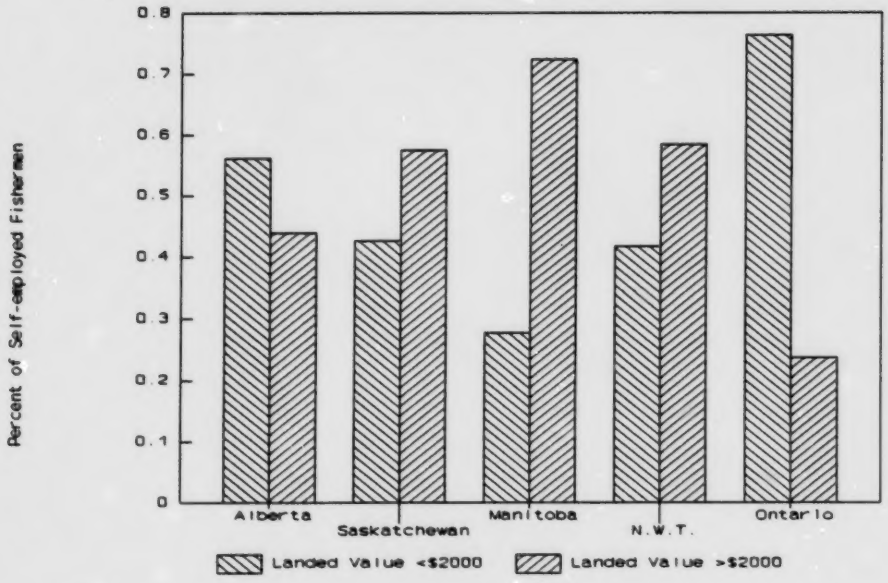

Table 2.3

DISTRIBUTION OF LANDED VALUES AMONG
SELF-EMPLOYED FISHERMEN, BY REGION.
1990/91

Landed Value Range	Alta.	Sask.	Man.	Ont.	NWT	Region
$0-$2,000	180	274	630	22	59	1164
$2,001-$4,000	28	148	364	5	23	567
$4,001-$6,000	27	64	240	5	9	345
$6,001-$8,000	16	48	206	0	11	281
$8,001-$10,000	11	33	141	<4	6	192
$10,001-$14,000	23	28	229	<4	6	286
$14,001-$20,000	14	20	170	0	7	211
$20,001-$30,000	11	8	89	0	5	112
$30,001-$40,000	4	4	14	0	<4	26
$40,001+	<4	<4	20	0	13	36
Total	316	628	2103	34	142	3220

SECTION 3

ALBERTA

Fig. 3.1
Alberta Landings by Species
1990/91 Total = 1 890 tonnes

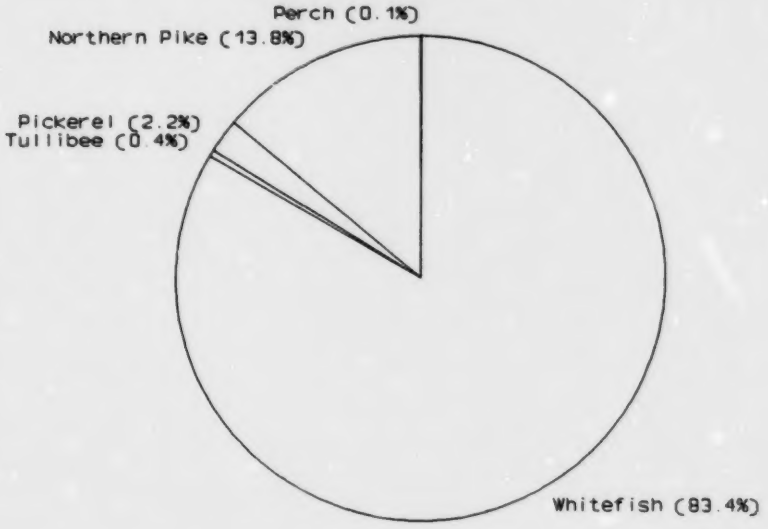

Fig. 3.2
Alberta Landed Values by Species
1990/91 Total = $1 554 000

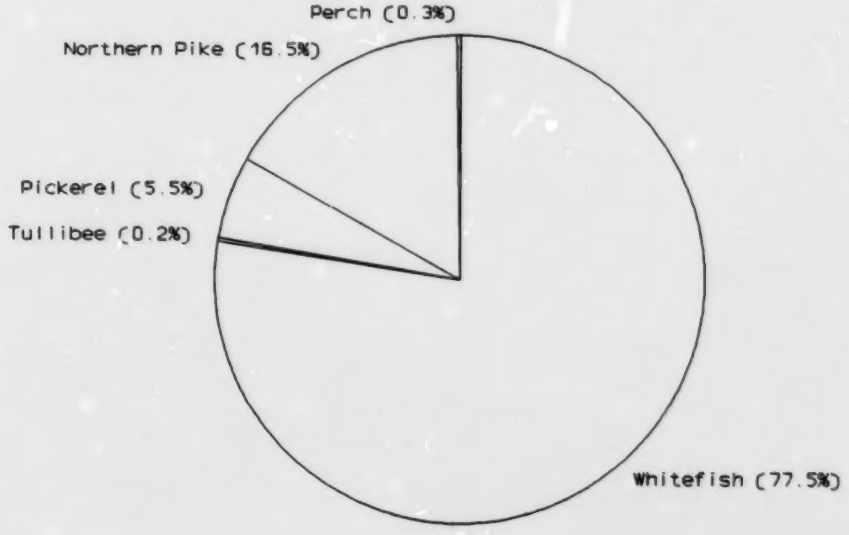

Table 3.1 LANDINGS, LANDED AND MARKETED VALUES BY SPECIES ALBERTA, 1990/91.

(live weight equivalent tonnes and $000's)

Species	Quantity	Landed Value	Marketed Value
Whitefish	1571	1175	2693
Whitefish Roe	6	30	185
Pickerel	42	85	168
Northern Pike	261	256	511
Tullibee	9	4	13
Perch	1	5	7
Total	1890	1554	3577

Table 3.2 ESTIMATED NUMBER OF PERSONS ENGAGED IN FISH HARVESTING OPERATIONS, ALBERTA, 1990/91.

Season	Self-employed	Crew Hands	Total
Summer Only	85	63	148
Winter Only	150	111	261
Both Seasons	81	60	141
Total	316	234	550

Table 3.3 DISTRIBUTION OF LANDED VALUES AMONG SELF-EMPLOYED FISHERMEN, ALBERTA TREND.

Landed Value Range	90/91	89/90	88/89	87/88	86/87	85/86	84/85	83/84	82/83	81/82
(nominal dollars)										
$0-$2,000	180	184	175	184	187	139	132	169	219	182
$2,001-$4,000	28	48	88	58	75	57	67	41	44	42
$4,001-$6,000	27	31	39	44	32	36	25	36	17	21
$6,001-$8,000	16	14	30	30	34	26	24	17	10	8
$8,001-$10,000	11	9	15	25	17	13	17	9	6	5
$10,001-$14,000	23	15	15	30	17	19	8	11	8	7
$14,001-$20,000	14	17	22	31	24	26	10	8	7	8
$20,001-$30,000	11	7	11	21	14	9	13	<4	4	<4
$30,001-$40,000	4	<4	6	7	4	<4	<4	<4	0	<4
$40,001+	<4	<4	<4	7	<4	<4	<4	0	0	<4
Total	316	328	403	437	405	331	301	293	315	280

Fig. 3.3
Distribution of Landed Values among Self-Employed Fishermen
Alberta, 1990/91

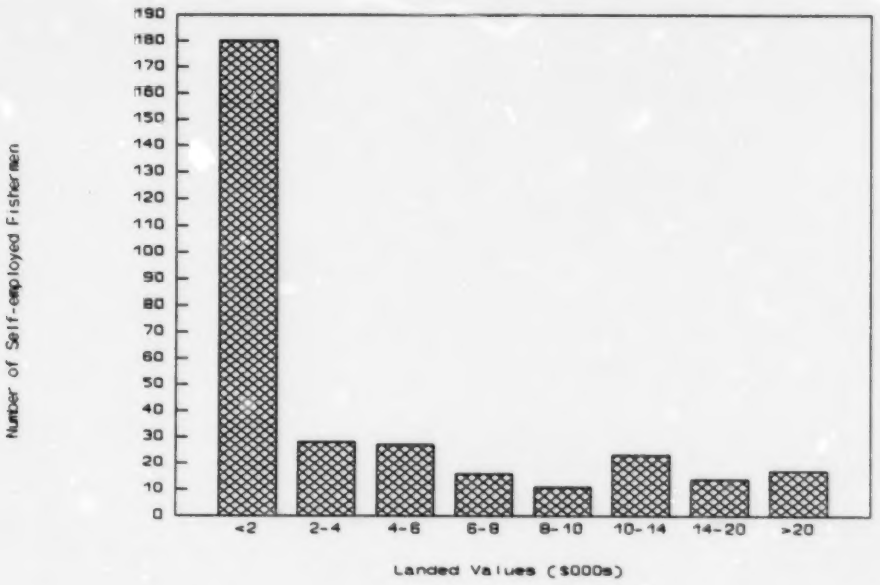

Table 3.4
LANDINGS, LANDED VALUES AND FISHING EFFORT, BY SELF-EMPLOYED FISHERMEN
ALBERTA, 1990/91.

Landed Value Range	Number of Fishermen	Averages Per Fishermen			
		Deliveries	Weeks	Weight	Total Payments
$0-$2,000	180	3.0	1.9	582	660
$2,001-$4,000	28	7.8	4.4	2718	2960
$4,001-$6,000	27	12.2	6.2	3758	4734
$6,001-$8,000	16	16.0	8.9	6396	7161
$8,001-$10,000	11	21.7	9.5	7558	8964
$10,001-$14,000	23	27.3	12.7	12045	12298
$14,001-$20,000	14	35.8	16.9	15702	16778
$20,001-$30,000	11	32.9	15.1	23117	24451
$30,001-$40,000	4	34.3	16.3	31578	33090
$40,001+	<4	86.5	53.0	57721	46318
Total	316	10.7	5.3	1629	4919

Fig. 3.4
Landings by Major Lakes
Alberta 1990/91 Total = 1 890 tonnes

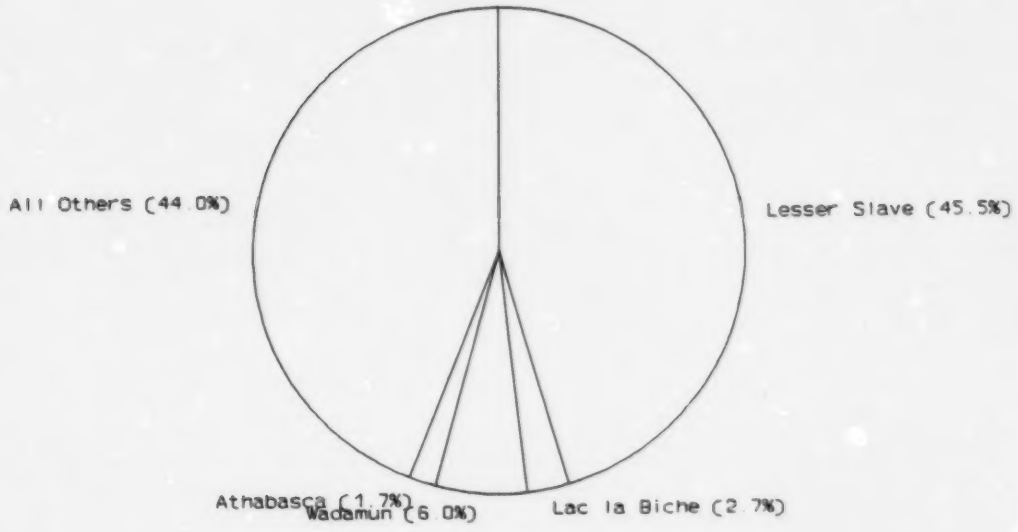

Fig. 3.5
Landed Values by Major Lakes
Alberta 1990/91 Total = $1 554 000

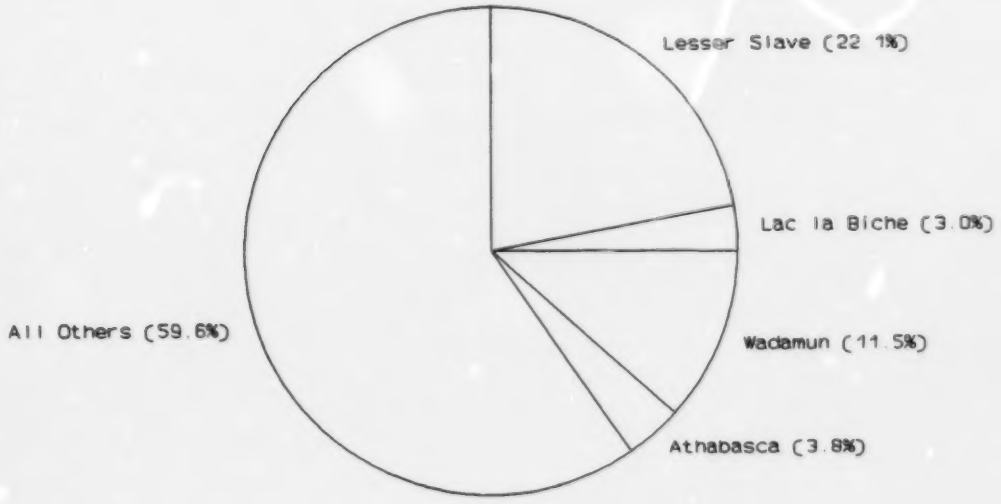

Table 3.5

LANDINGS BY MAJOR LAKES
ALBERTA, 1990/91.
(live equivalent tonnes)

Species	Athabasca	Lac la Biche	Lesser Slave	Wabamun	All Others	Total
Whitefish	0	46	757	113	662	1577
Pickerel	33	0	3	0	6	42
Northern Pike	0	5	100	1	156	261
Tullibee	0	0	0	0	9	9
Perch	0	0	1	0	0	1
Others	0	0	0	0	0	0
Total	33	51	860	114	833	1890

Table 3.6

LANDED VALUES BY MAJOR LAKES
ALBERTA, 1990/91.
($000s)

Species	Athabasca	Lac la Biche	Lesser Slave	Wabamun	All Others	Total
Whitefish	0	41	232	178	754	1205
Pickerel	59	0	6	0	20	85
Northern Pike	0	5	104	1	147	256
Tullibee	0	0	0	0	4	4
Perch	0	0	3	0	2	5
Others	0	0	0	0	0	0
Total	59	46	344	179	926	1554

Fig. 3.6
Alberta Landings Trend

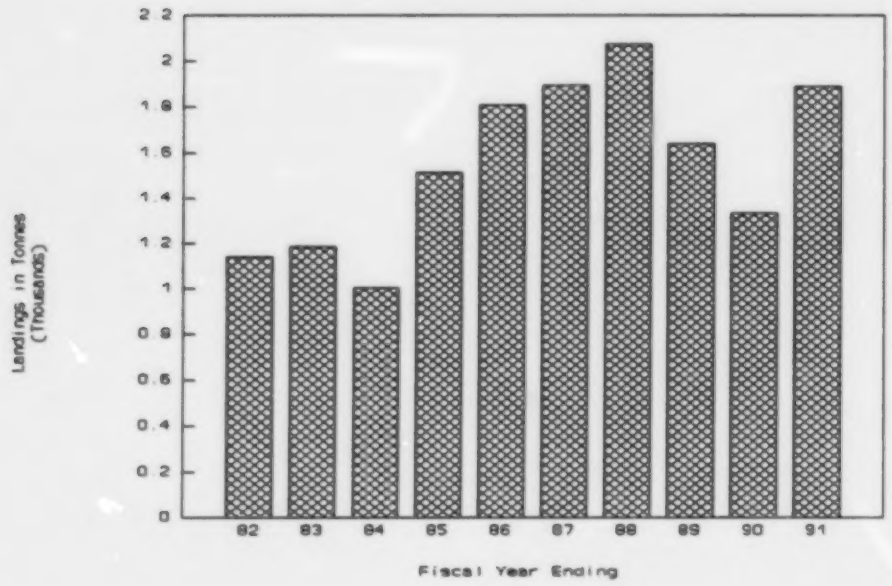

Table 3.7

ALBERTA
TEN YEAR LANDINGS TREND.
(live weight equivalent tonnes)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	744	880	721	1165	1504	1507	1566	1287	1080	1577
Pickerel	117	20	15	87	77	64	103	99	88	42
Northern Pike	245	273	256	225	182	228	306	169	152	261
Tullibee	30	14	10	36	45	93	97	83	11	9
Others	2	0	0	1	<1	2	2	1	3	1
Total	1138	1186	1002	1513	1809	1894	2074	1639	1334	1890

Fig. 3.7
Alberta Landed Values Trend

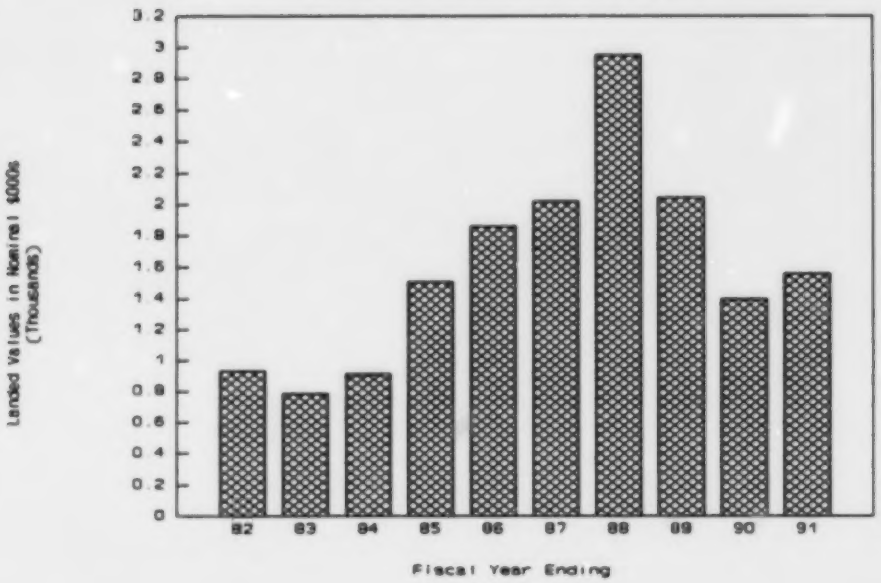

Table 3.8

ALBERTA
TEN YEAR LANDED VALUES TREND.
(nominal $000's)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	516	626	682	1149	1531	1475	2109	1623	1174	1205
Pickerel	231	29	45	149	138	190	406	347	103	85
Northern Pike	166	123	181	178	161	293	367	158	108	256
Tullibee	11	5	3	25	30	55	62	46	5	4
Others	6	0	<1	2	1	7	5	1	5	5
Total	931	783	912	1503	1861	2020	2948	2041	1394	1555

Fig. 3.8
Alberta Landings Trend
By Major Lakes

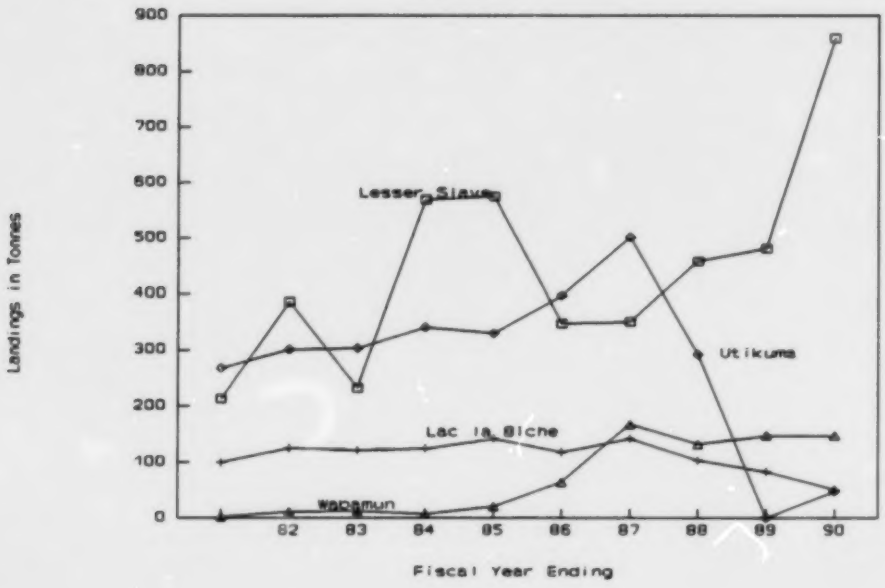

Fig. 3.9
Alberta Landed Values Trend
By Major Lakes

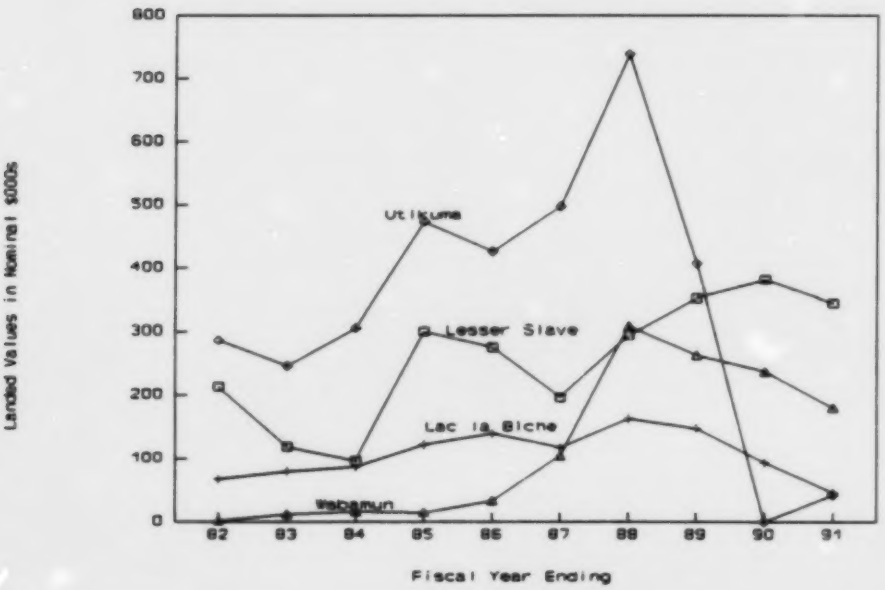

Table 3.9

ALBERTA
TEN YEAR LANDINGS TREND BY MAJOR LAKES.
(live weight equivalent tonnes)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Athabasca	57	0	0	68	58	47	78	73	77	33
Lac la Biche	100	125	121	124	142	118	142	103	83	51
Lesser Slave	213	385	233	569	575	347	350	458	481	860
Utikuma	268	301	303	340	329	396	501	292	0	48
Winagami	0	0	0	63	270	340	267	19	0	114
Wabamun	2	11	12	7	20	64	167	132	147	147
All others	500	375	345	349	435	647	736	694	546	637
Total	1138	1186	1002	1513	1809	1894	2074	1639	1334	1890

Table 3.10

ALBERTA
TEN YEAR LANDED VALUES TREND BY MAJOR LAKES.
(nominal $000's)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Athabasca	65	0	0	103	93	126	274	123	76	59
Lac la Biche	68	80	87	122	139	117	162	147	93	46
Lesser Slave	213	118	96	300	275	196	293	352	381	344
Utikuma	286	246	305	473	426	497	738	406	0	42
Winagami	0	0	0	63	393	371	397	36	0	33
Wabamun	2	12	16	15	33	104	308	262	236	179
All others	300	339	423	443	535	713	1084	977	608	851
Total	931	783	912	1503	1861	2020	2948	2041	1394	1554

SECTION 4

SASKATCHEWAN

Fig. 4.1
Saskatchewan Landings by Species
1990/91 Total = 2 880 tonnes

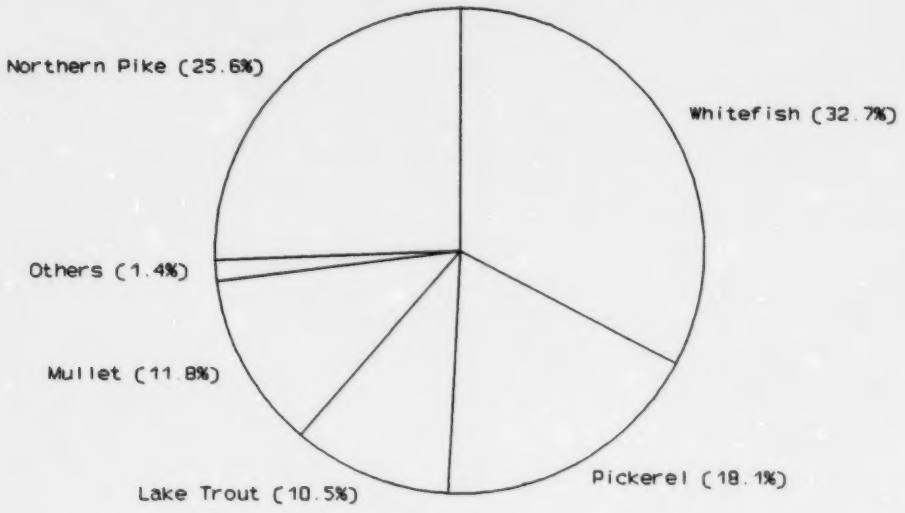

Fig. 4.2
Saskatchewan Landed Values by Species
1990/91 Total = $2 598 000

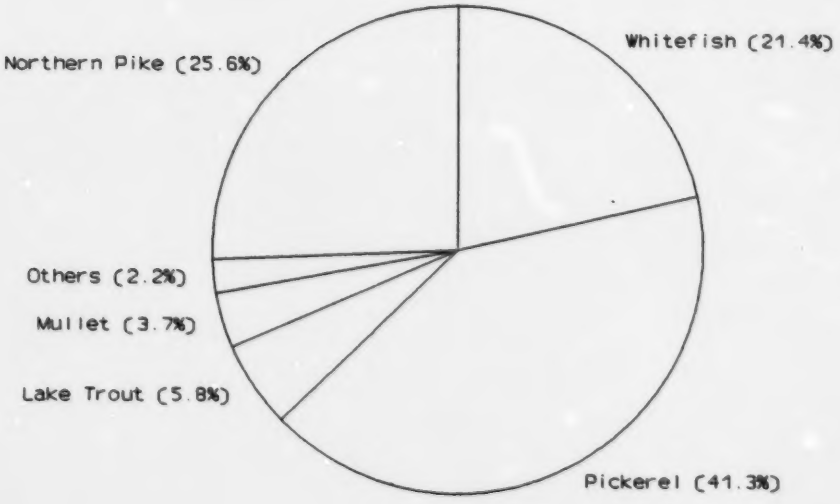

Table 4.1 LANDINGS, LANDED AND MARKETED VALUES BY SPECIES SASKATCHEWAN, 1990/91.
(live weight equivalent tonnes and $000's)

Species	Quantity	Landed Value	Marketed Value
Whitefish	941	557	1629
Pickerel	520	1073	2058
Sauger	1	2	4
Lake Trout	303	150	522
Northern Pike	737	666	1444
Tullibee	1	1	2
Mullet	339	95	234
Sturgeon	3	25	33
Others	36	31	48
Total	2880	2598	5972

Table 4.2 ESTIMATED NUMBER OF PERSONS ENGAGED IN FISH HARVESTING OPERATIONS, SASKATCHEWAN, 1990/91.

Season	Self-employed	Crew Hands	Total
Summer Only	273	170	443
Winter Only	267	167	434
Both Seasons	88	55	143
Total	628	392	1020

Table 4.3 DISTRIBUTION OF LANDED VALUES AMONG SELF-EMPLOYED FISHERMEN, SASKATCHEWAN TREND.

Landed Value Range	90/91	89/90	88/89	87/88	86/87	85/86	84/85	83/84	82/83	81/82
(nominal dollars)										
$0-$2,000	274	301	252	173	191	233	212	225	393	288
$2,001-$4,000	148	161	158	125	144	158	109	99	152	146
$4,001-$6,000	64	82	112	83	84	86	62	54	59	76
$6,001-$8,000	48	57	80	65	68	52	59	39	44	46
$8,001-$10,000	33	35	48	47	35	45	37	33	22	34
$10,001-$14,000	28	34	43	67	55	34	44	31	13	47
$14,001-$20,000	20	23	35	52	39	26	25	18	8	21
$20,001-$30,000	8	7	29	40	19	14	27	11	6	9
$30,001+	5	7	10	16	10	10	10	10	4	10
Total	628	707	767	668	645	658	585	520	706	677

Fig. 4.3
Distribution of Landed Values among Self-Employed Fishermen
Saskatchewan, 1990/91

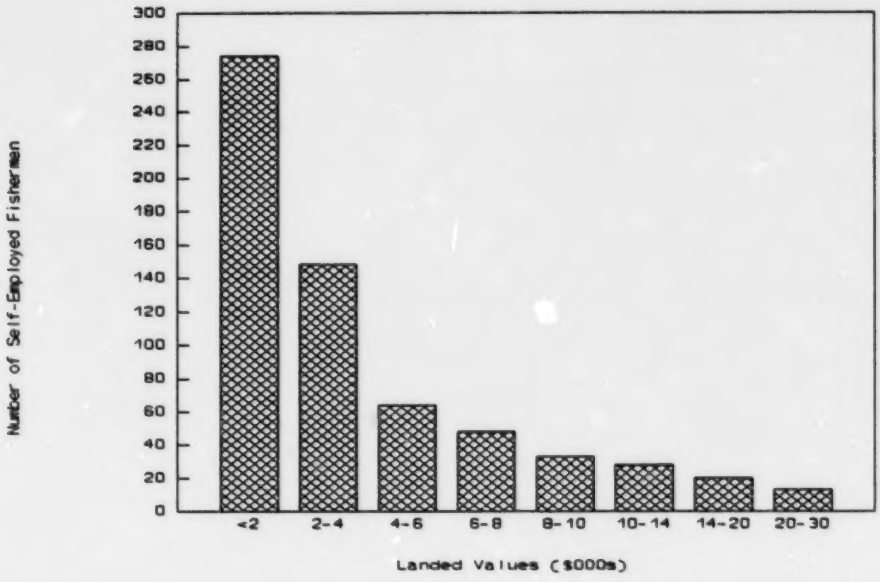

Table 4.4

LANDINGS, LANDED VALUES AND FISHING EFFORT, BY SELF-EMPLOYED FISHERMEN
SASKATCHEWAN, 1990/91.

Landed Value Range	Number of Fishermen	Averages Per Fishermen			
		Deliveries	Weeks	Weight	Total Payments
$0-$2,000	274	5.2	2.3	715	780
$2,001-$4,000	148	16.6	5.9	2470	2806
$4,001-$6,000	64	23.6	7.8	4146	4892
$6,001-$8,000	48	31.9	10.3	5819	6867
$8,001-$10,000	33	34.7	11.6	7322	8974
$10,001-$14,000	28	36.3	14.3	9649	11823
$14,001-$20,000	20	35.6	14.5	14270	16670
$20,001-$30,000	8	57.4	17.8	22927	23918
$30,001+	5	65.0	25.6	40237	28890
Total	628	16.8	6.1	3643	4137

Fig. 4.4
Landings by Major Lakes
Saskatchewan 1990/91 Total = 2 880 tonnes

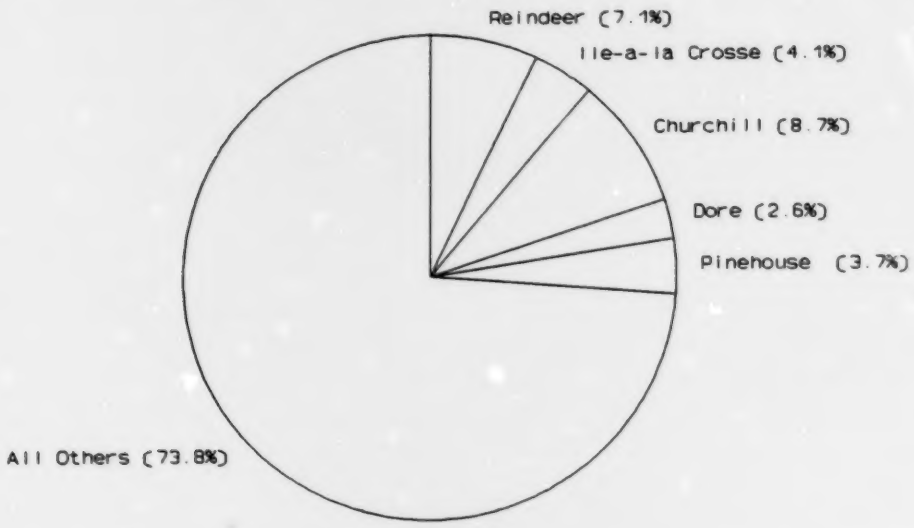

Fig. 4.5
Landed Values by Major Lakes
Saskatchewan 1990/91 Total = $ 2 598 000

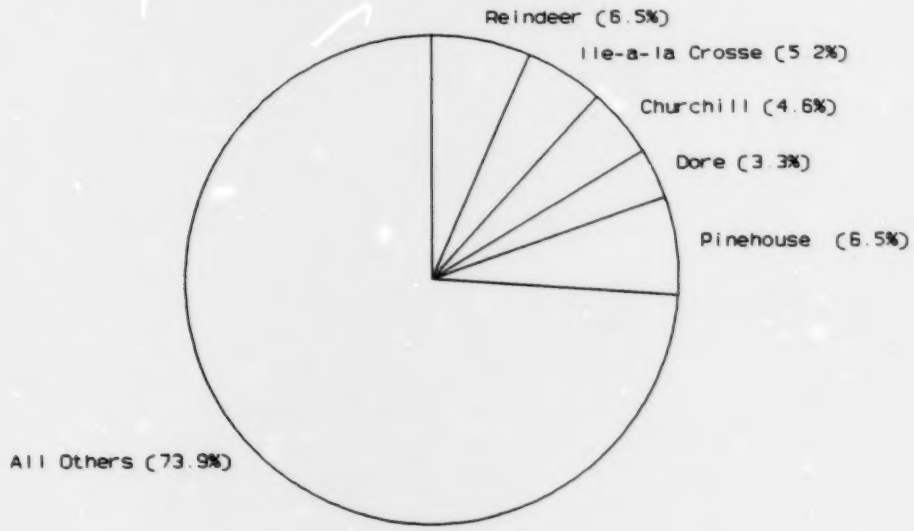

Table 4.5

LANDINGS BY MAJOR LAKES
SASKATCHEWAN, 1990/91.
(live weight equivalent tonnes)

Species	Dore	Ile-a-la Crosse	Churchill	Rein-deer	Pine-house	All Others	Total
Whitefish	49	34	3	59	29	767	941
Pickerel	2	8	6	25	41	438	520
Sauger	0	0	0	0	1	1	1
Lake Trout	0	0	0	99	0	204	303
Northern Pike	23	75	60	22	35	521	737
Tullibee	0	0	0	0	0	1	1
Mullet	0	0	183	0	0	155	339
Sturgeon	0	0	0	0	0	3	3
Others	0	0	0	0	0	36	36
Total	75	117	252	205	106	2126	2880

Table 4.6

LANDED VALUES BY MAJOR LAKES
SASKATCHEWAN, 1990/91.
($000's)

Species	Dore	Ile-a-la Crosse	Churchill	Rein-deer	Pine-house	All Others	Total
Whitefish	55	40	2	59	5	396	557
Pickerel	5	20	11	25	126	878	1073
Sauger	0	0	0	0	1	1	2
Lake Trout	0	0	0	82	0	42	150
Northern Pike	24	72	54	3	33	477	666
Tullibee	0	0	0	0	0	1	1
Mullet	0	0	52	0	0	43	95
Sturgeon	0	0	0	0	0	25	25
Others	0	0	0	0	0	31	31
Total	85	132	119	168	165	1893	2598

Fig. 4.6
Saskatchewan Landings Trend

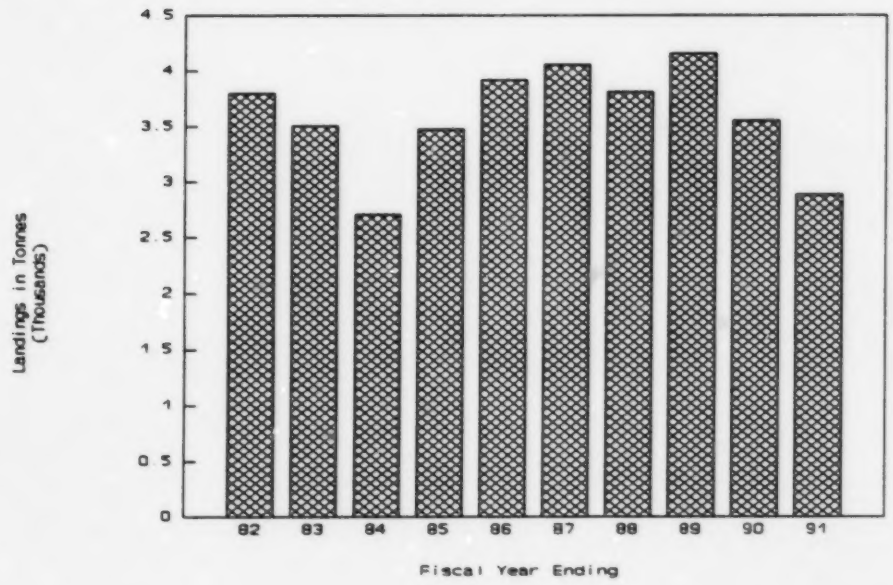

Table 4.7

SASKATCHEWAN
TEN YEAR LANDINGS TREND.
(live weight equivalent tonnes)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	1328	1198	1018	1173	1514	1443	874	1551	1138	941
Pickerel	874	841	732	758	686	538	599	601	551	520
Lake Trout	460	323	260	467	517	577	516	687	590	303
Northern Pike	810	950	617	833	914	1031	1280	1034	974	737
Tullibee	11	7	14	10	16	5	7	9	3	1
Mullet	129	<1	2	18	159	424	513	264	294	339
Sturgeon	5	6	4	4	4	3	3	3	1	3
Others	3	95	15	7	27	2	19	4	3	37
Total	3802	3504	2707	3476	3919	4060	3811	4152	3553	2880

Fig. 4.7
Saskatchewan Landed Values Trend

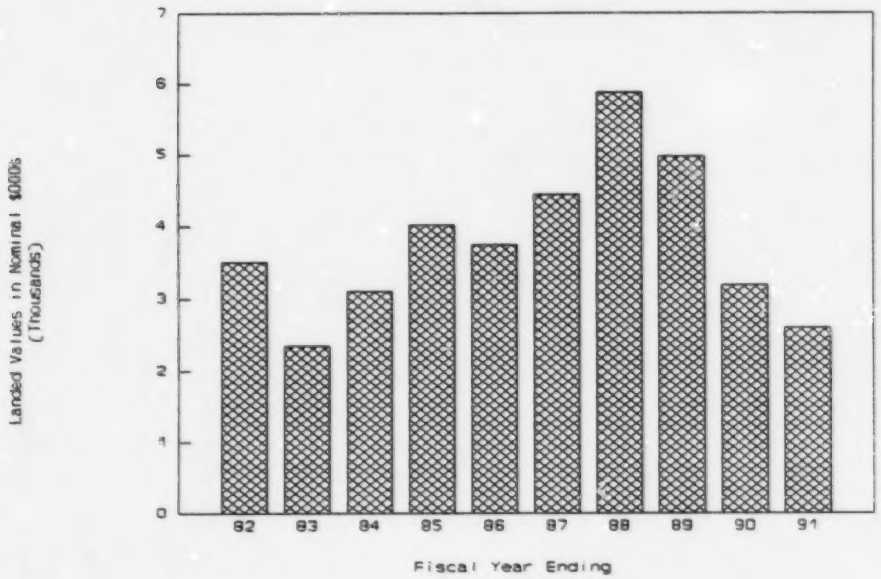

Table 4.8

SASKATCHEWAN
TEN YEAR LANDED VALUES TREND.
(nominal $000's)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	760	640	681	914	857	710	819	1464	900	557
Pickerel	1977	1146	1636	1750	1609	1962	2686	1703	1103	1073
Lake Trout	290	179	383	644	534	570	737	830	511	150
Northern Pike	385	312	360	622	642	1068	1415	864	573	666
Tullibee	4	2	5	7	10	3	4	5	1	1
Mullet	24	<1	<1	4	31	82	135	78	84	95
Sturgeon	23	23	25	31	40	28	35	27	9	25
Others	1	31	8	8	9	7	16	4	3	33
Total	3502	2350	3107	4019	3746	4441	5872	4975	3185	2598

Fig. 4.8
Saskatchewan Landings Trend
by Major Lakes

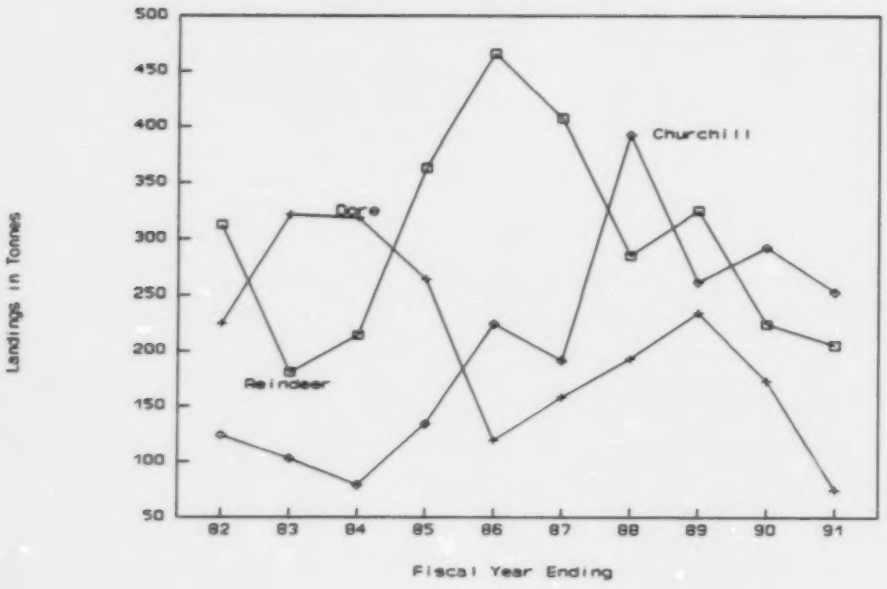

Fig. 4.9
Saskatchewan Landed Values Trend
by Major Lakes

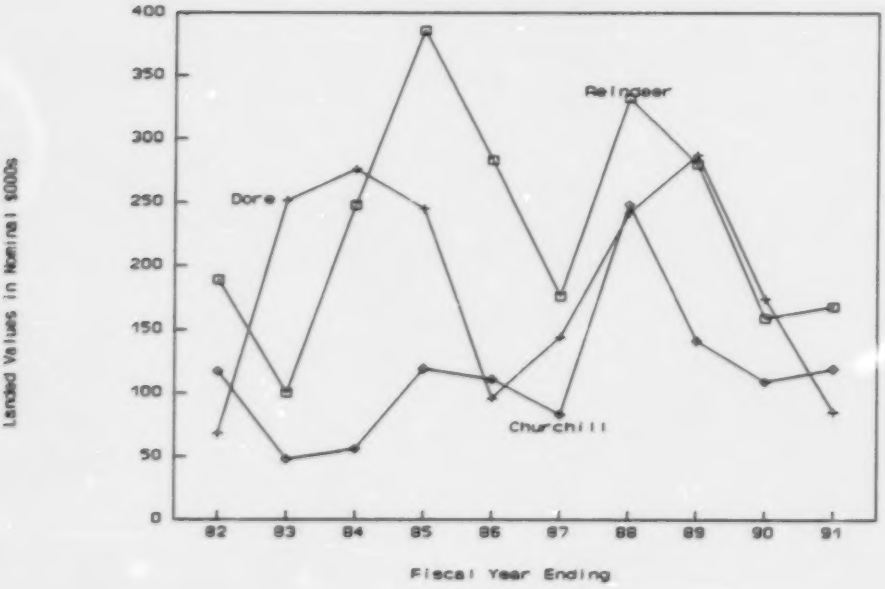

Table 4.9

SASKATCHEWAN
TEN YEAR LANDINGS TREND BY MAJOR LAKES.
(live weight equivalent tonnes)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Athabasca	56	0	0	130	173	203	145	232	136	90
Big Peter Pond	192	156	158	65	137	124	200	177	104	149
Dore	225	321	319	264	119	158	193	234	173	75
Ile-a-la-Crosse	295	194	78	192	176	191	244	110	139	117
Pinehouse	143	86	112	115	166	104	135	108	111	106
Reindeer	313	181	214	363	466	407	285	325	224	205
Churchill	124	103	79	134	224	191	392	261	292	252
All Others	2455	2463	1747	2213	2458	2682	2293	2705	2374	1886
Total	3802	3504	2707	3476	3919	4060	3887	4152	3553	2880

Table 4.10

SASKATCHEWAN
TEN YEAR LANDED VALUES TREND BY MAJOR LAKES.
(nominal $000's)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Athabasca	47	0	0	135	152	211	223	333	140	37
Big Peter Pond	149	89	212	78	122	97	178	141	62	83
Dore	68	252	276	245	96	144	241	287	174	85
Ile-a-la-Crosse	202	105	67	207	174	234	378	129	121	132
Pinehouse	206	73	181	230	253	179	397	241	170	165
Reindeer	189	100	248	386	283	176	332	280	159	168
Churchill	117	48	56	119	111	83	248	141	109	119
All Others	2524	1684	2067	2619	2828	3317	3875	3423	2250	1809
Total	3502	2350	3107	4019	4019	4441	5872	4975	3185	2598

SECTION 5

MANITOBA

Fig. 5.1
Manitoba Landings by Species
1990/91 Total = 11 121 tonnes

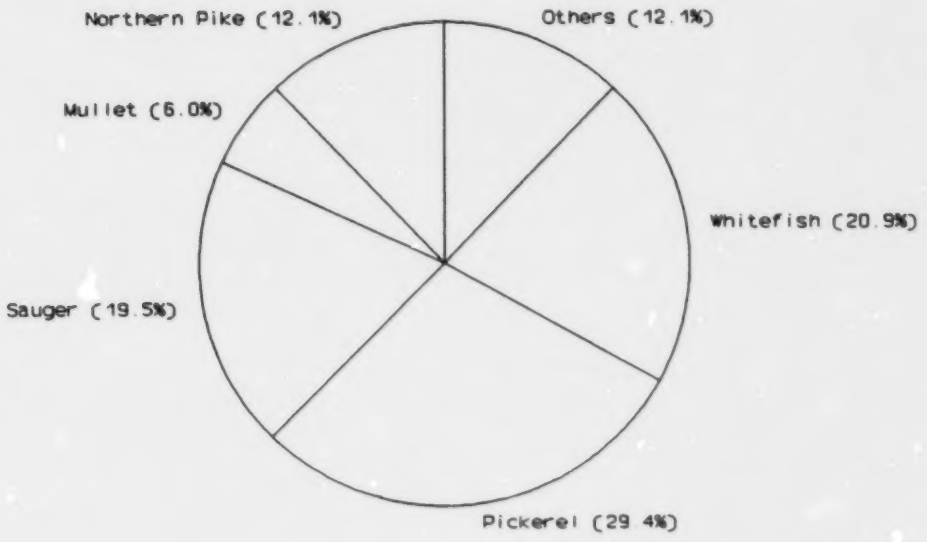

Fig. 5.2
Manitoba Landed Values by Species
1990/91 Total = $14 885 000

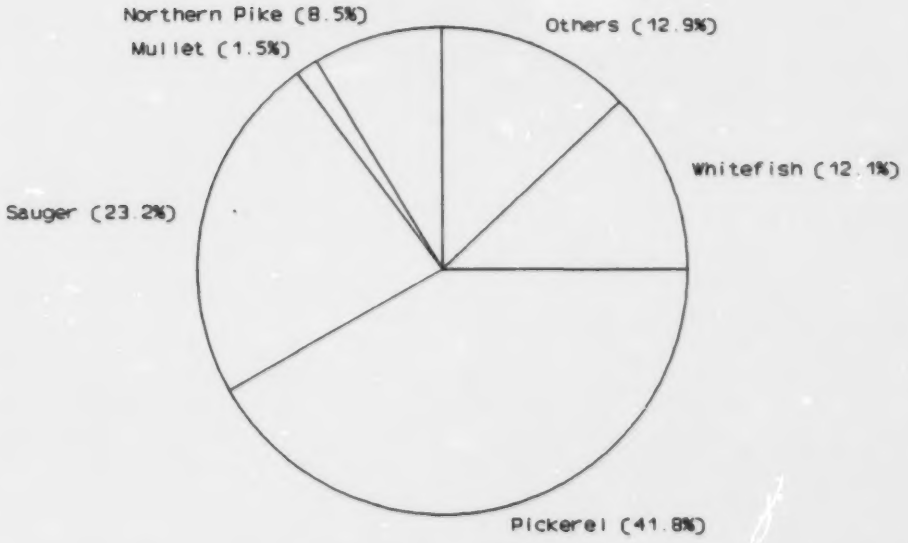

Table 5.1 LANDINGS, LANDED AND MARKETED VALUES BY SPECIES MANITOBA, 1990/91.

(live weight equivalent tonnes and $000's)

Species	Quantity	Landed Value	Marketed Value
Whitefish	2327	1805	4693
Pickerel	3265	6223	12931
Sauger	2168	3447	7502
Lake Trout	26	11	45
Northern Pike	1344	1270	2634
Tullibee	49	22	77
Perch	458	1391	2158
Mullet	668	219	461
Carp	668	211	407
Sturgeon	4	35	44
Others	144	251	394
Total	11121	14885	31345

Table 5.2 ESTIMATED NUMBER OF PERSONS ENGAGED IN FISH HARVESTING OPERATIONS, MANITOBA, 1990/91.

Season	Self-employed	Crew Hands	Total
Summer Only	775	620	1395
Winter Only	766	613	1379
Both Seasons	562	450	1012
Total	2103	1683	3786

Table 5.3 DISTRIBUTION OF LANDED VALUES AMONG SELF-EMPLOYED FISHERMEN, MANITOBA TREND.

Landed Value Range	90/91	89/90	88/89	87/88	86/87	85/86	84/85	83/84	82/83	81/82
(nominal dollars)										
$0-$2,000	630	624	468	362	447	616	505	587	756	509
$2,001-$4,000	364	333	327	293	287	318	313	318	412	322
$4,001-$6,000	240	236	215	223	208	223	240	228	316	209
$6,001-$8,000	206	244	218	161	161	186	251	244	184	234
$8,001-$10,000	141	152	168	178	142	169	182	142	167	163
$10,001-$14,000	229	284	297	282	248	247	266	248	208	236
$14,001-$20,000	170	220	284	266	242	230	232	179	144	217
$20,001-$30,000	89	125	201	286	252	134	137	127	51	159
$30,001-$40,000	14	24	58	128	102	23	34	20	9	39
$40,001+	20	21	42	65	48	21	21	12	7	17
Total	2103	2263	2278	2244	2137	2167	2181	2105	2254	2105

Fig. 5.3
Distribution of Landed Values among
Manitoba Self-employed Fishermen, 1990/91

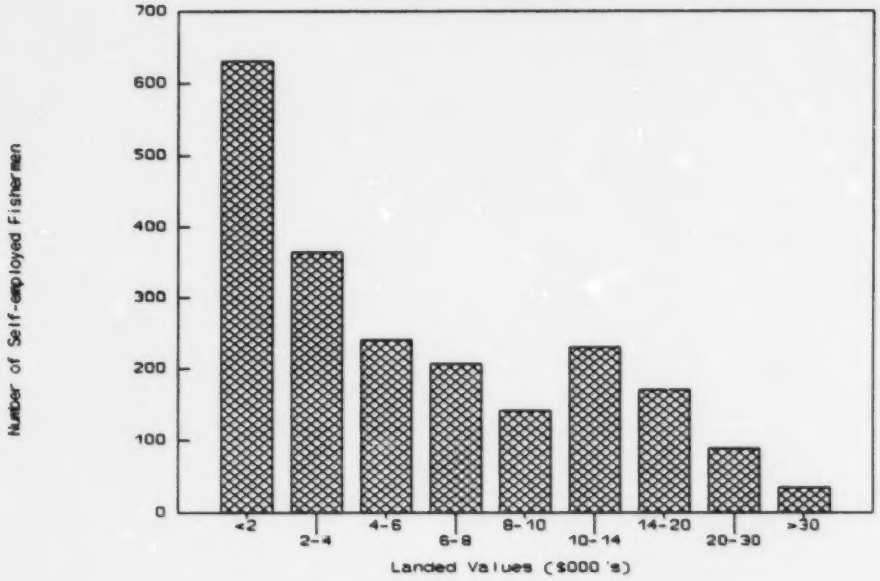

Table 5.4

LANDINGS, LANDED VALUES AND FISHING EFFORT, BY SELF-EMPLOYED FISHERMEN
MANITOBA, 1990/91.

Landed Value Range	Number of Fishermen	Averages Per Fishermen			
		Deliveries	Weeks	Weight	Total Payments
$0-$2,000	630	8.8	4.4	697	903
$2,001-$4,000	364	21.8	8.7	2118	2892
$4,001-$6,000	240	27.6	10.7	3382	4994
$6,001-$8,000	206	34.9	12.5	4447	6900
$8,001-$10,000	141	40.3	14.7	4236	9009
$10,001-$14,000	229	45.9	14.6	7376	11895
$14,001-$20,000	170	57.5	18.6	10218	16691
$20,001-$30,000	89	59.7	19.7	14901	24715
$30,001-$40,000	14	65.8	23.7	19569	32595
$40,001+	20	79.0	22.6	46100	64973
Total	2103	28.9	10.5	4564	7073

Fig. 5.4
Landings by Major Lakes
Manitoba 1990/91 Total = 11 121 tonnes

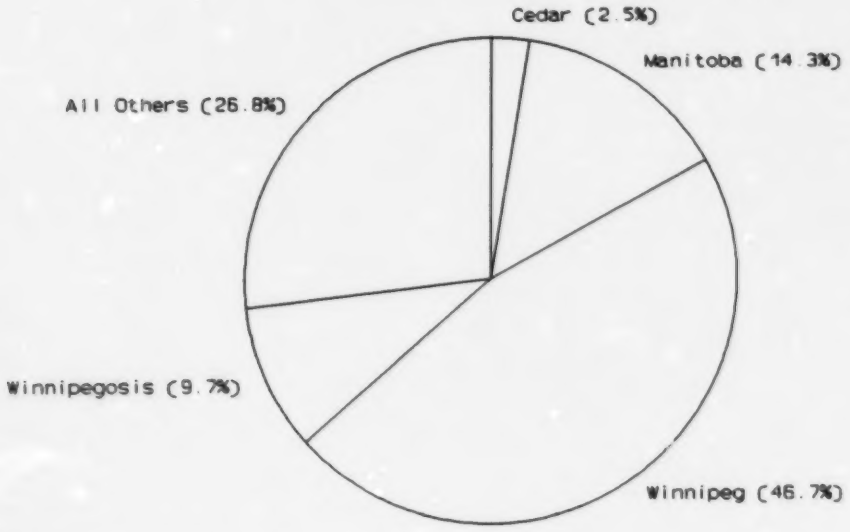

Fig. 5.5
Landed Values by Major Lakes
Manitoba 1990/91 Total = $ 14 885 000

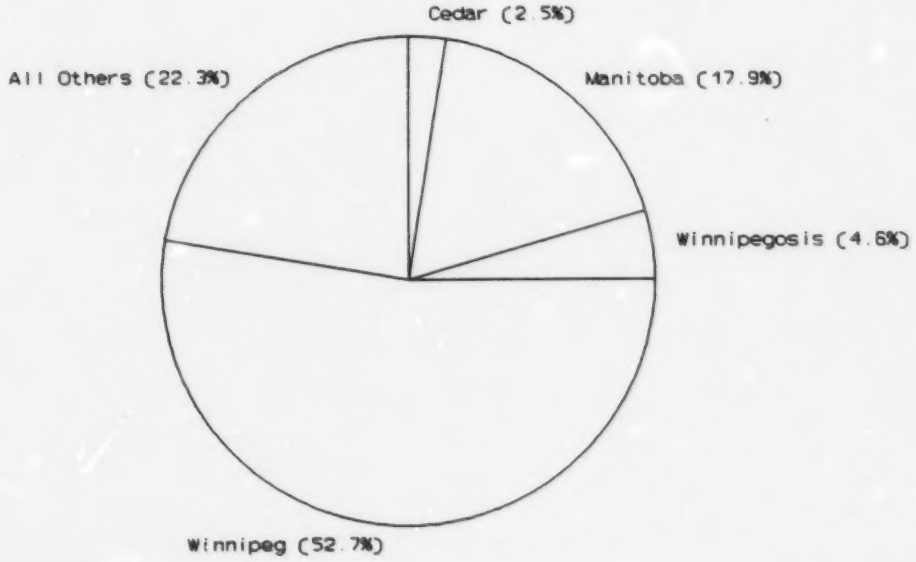

Table 5.5

LANDINGS BY MAJOR LAKES
MANITOBA, 1990/91.
(live weight equivalent tonnes)

Species	Cedar	Manitoba	Winnipeg	Winni-pegosis	All Others	Total
Whitefish	19	13	1101	71	1124	2327
Pickerel	129	308	1952	68	809	3265
Sauger	5	343	1812	1	7	2168
Lake Trout	0	0	0	0	26	26
Northern Pike	106	53	94	167	925	1344
Tullibee	21	0	0	0	29	49
Perch	1	324	71	53	9	458
Mullet	0	116	1	527	23	668
Carp	0	434	35	187	12	668
Sturgeon	0	0	0	0	4	4
Others	1	0	124	2	17	144
Total	281	1591	5189	1075	2985	11121

Table 5.6

LANDED VALUES BY MAJOR LAKES
MANITOBA, 1990/91.
($000's)

Species	Cedar	Manitoba	Winnipeg	Winni-pegosis	All Others	Total
Whitefish	17	13	987	60	729	1805
Pickerel	235	724	3560	139	1565	6223
Sauger	7	627	2800	1	12	3447
Lake Trout	0	0	0	0	11	11
Northern Pike	98	53	86	162	872	1270
Tullibee	11	0	0	0	11	22
Perch	2	1091	196	73	7	1391
Mullet	0	32	0	178	15	219
Carp	0	132	13	62	4	211
Sturgeon	0	0	0	0	35	35
Others	3	0	200	4	44	251
Total	373	2672	7842	679	3319	14885

Fig. 5.6
Manitoba Landings Trend

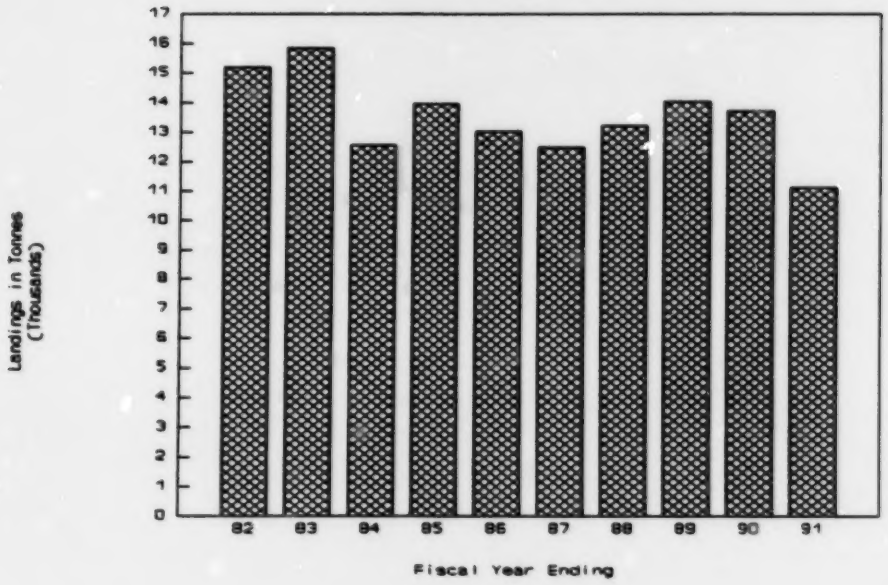

Table 5.7

MANITOBA
TEN YEAR LANDINGS TREND.
(live weight equivalent tonnes)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	3304	3108	3197	3591	3182	3674	3060	3259	2574	2327
Pickerel	4016	4237	3289	4045	3794	3607	2894	3748	4171	3265
Sauger	1769	1476	2220	2102	1629	1426	2749	2758	2683	2168
Lake Trout	50	41	21	12	9	36	25	36	26	26
Northern Pike	2654	2527	1659	1990	2152	1991	2217	2310	2011	1344
Tullibee	252	207	164	129	117	138	157	139	84	49
Perch	97	106	123	215	163	116	308	597	509	458
Mullet	2247	3649	1446	1452	1652	885	1309	728	1268	668
Carp	775	485	404	366	261	546	433	414	325	668
Sturgeon	6	7	7	6	6	5	5	8	7	4
Others	25	12	17	44	55	63	50	47	63	144
Total	15197	15855	12548	13951	13018	12487	13207	14044	13721	11121

Fig. 5.7
Manitoba Landed Values Trend

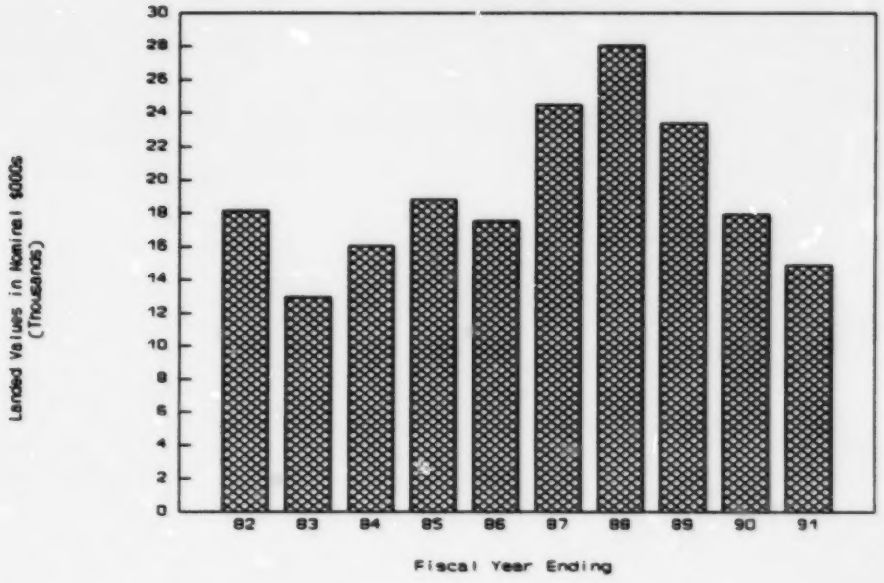

Table 5.8

MANITOBA
TEN YEAR LANDED VALUES TREND.
(nominal $000's)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	2737	2300	2491	3571	2777	3118	3575	3950	2529	1805
Pickerel	9740	6316	7854	9734	9060	13645	13049	10093	7819	6223
Sauger	3224	2154	3523	2831	2881	4089	6949	4964	4402	3447
Lake Trout	37	25	33	17	10	28	32	38	23	11
Northern Pike	1536	1156	1193	1540	1772	2470	2665	2192	1335	1270
Tullibee	95	73	57	89	79	83	98	64	35	22
Perch	268	174	491	580	530	453	992	1550	1131	1391
Mullet	320	624	237	312	291	255	403	219	377	219
Carp	145	90	71	76	50	157	125	112	94	211
Sturgeon	32	28	49	48	54	50	56	76	70	35
Others	11	6	11	32	55	101	94	99	140	251
Total	18146	12946	16010	18831	17559	24451	28038	23356	17954	14885

Fig. 5.8
Manitoba Landings Trend
by Major Lakes

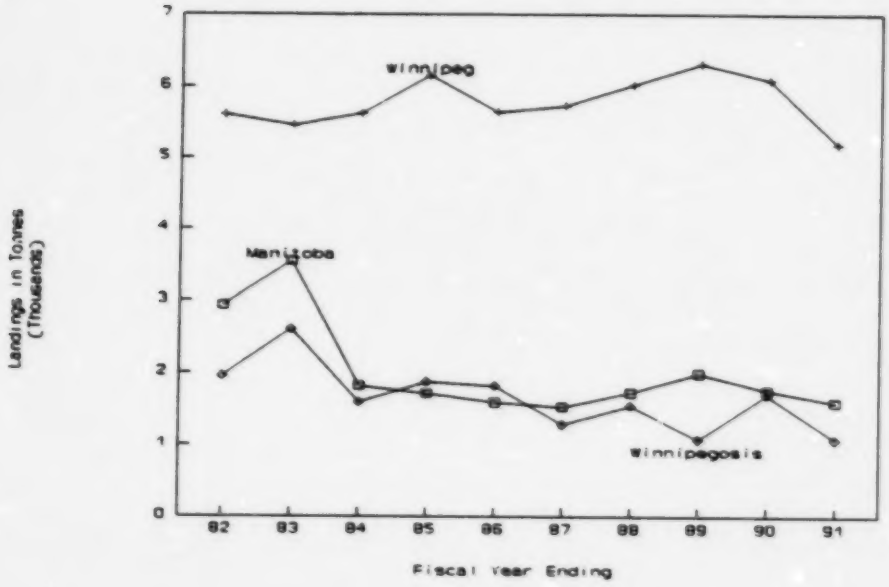

Fig. 5.9
Manitoba Landed Values Trend
by Major Lakes

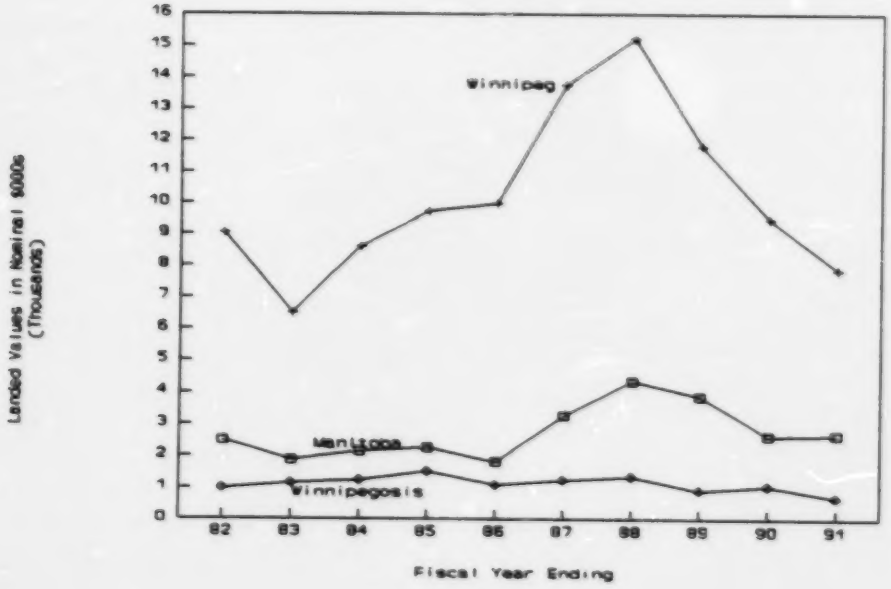

Table 5.9

MANITOBA
TEN YEAR LANDINGS TREND BY MAJOR LAKES.
(live weight equivalent tonnes)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Cedar	875	923	790	833	747	838	857	859	722	281
Manitoba	2934	3545	1815	1713	1587	1528	1726	1988	1757	1591
Winnipeg	5605	5453	5617	6146	5640	5726	6017	6309	6084	5189
Winnipegosis	1954	2597	1592	1873	1814	1282	1544	1075	1696	1074
All Others	3830	3338	2734	3385	3230	3113	3063	3813	3463	2986
Total	15197	15855	12548	13951	13018	12487	13207	14044	13721	11121

Table 5.10

MANITOBA
TEN YEAR LANDED VALUES TREND BY MAJOR LAKES.
(nominal $000's)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Cedar	1289	907	1137	1247	1122	1884	1799	1532	966	372
Manitoba	2497	1874	2155	2261	1817	3263	4361	3875	2634	2672
Winnipeg	9039	6484	8604	9735	9975	13736	15219	11804	9464	7842
Winnipegosis	984	1143	1235	1514	1078	1244	1345	914	1049	679
All Others	4337	2538	2879	2879	3568	4324	5313	5231	3841	3320
Total	18146	12946	16010	18831	17559	24451	28037	23356	17954	14885

SECTION 6

NORTHWESTERN ONTARIO

Fig. 6.1
Northwest Ontario Landings by Species
1990/91 Total = 60 tonnes

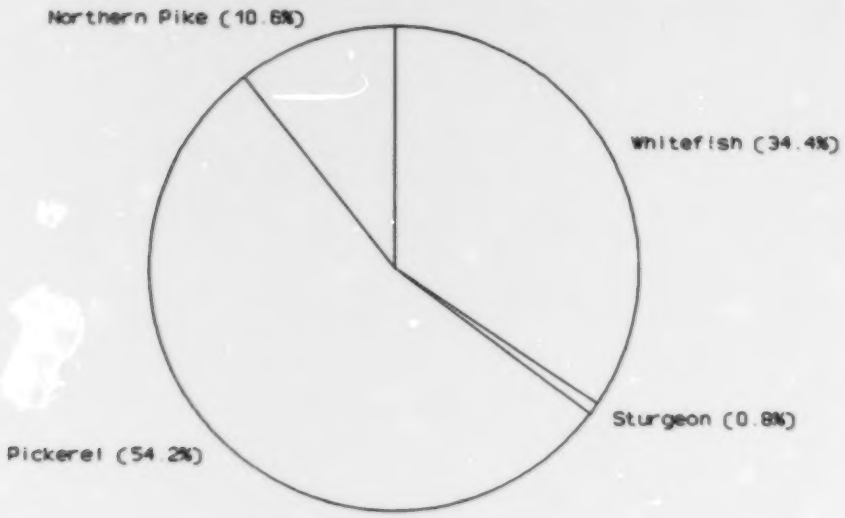

Fig. 6.2
Northwest Ontario Landed Values by Species
1990/91 Total = $79 000

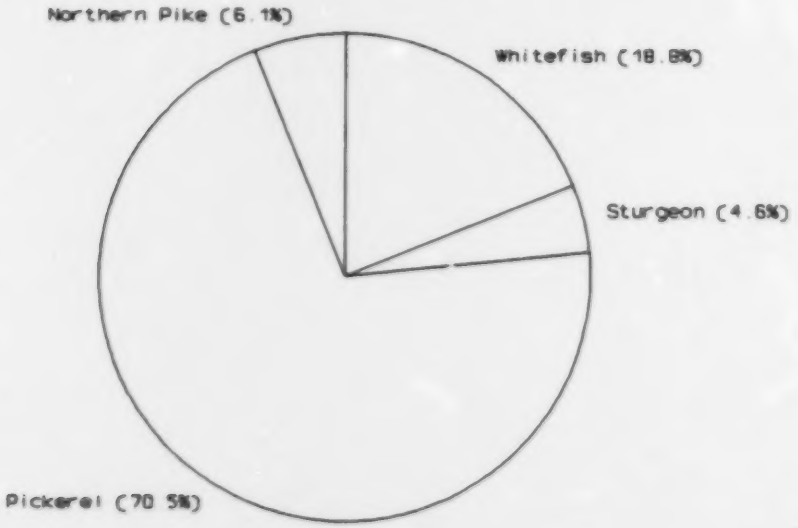

Table 6.1

LANDINGS, LANDED AND MARKETED VALUES BY SPECIES, NORTHWESTERN ONTARIO, 1990/91.

(live weight equivalent tonnes and $000's)

Species	Quantity	Landed Value	Marketed Value
Whitefish	21	15	42
Pickerel	32	56	128
Northern Pike	6	5	12
Sturgeon	1	4	6
Total	60	79	188

Table 6.2

ESTIMATED NUMBER OF PERSONS ENGAGED IN FISH HARVESTING OPERATIONS, NORTHWESTERN ONTARIO, 1990/91.

Season	Self-employed	Crew Hands	Total
Summer Only	20	13	33
Winter Only	6	4	10
Both Seasons	8	5	13
Total	34	22	56

Table 6.3

DISTRIBUTION OF LANDED VALUES AMONG SELF-EMPLOYED FISHERMEN, NORTHWESTERN ONTARIO TREND.

Landed Value Range	90/91	89/90	88/89	87/88	86/87	85/86	84/85	83/84	82/83	81/82
(nominal dollars)										
$0-$2,000	22	71	50	53	79	89	51	29	77	9
$2,001-$4,000	5	13	18	25	37	50	31	10	19	<4
$4,001-$6,000	5	4	12	13	19	10	9	<4	13	8
$6,001-$8,000	0	0	4	8	6	5	6	<4	4	4
$8,001-$10,000	<4	0	<4	<4	<4	<4	<4	<4	<4	5
$10,001-$14,000	<4	<4	0	<4	0	7	7	6	4	5
$14,001-$20,000	0	0	<4	<4	<4	<4	4	<4	<4	<4
$20,001-$30,000	0	<4	<4	<4	<4	<4	<4	0	<4	<4
$30,001-$40,000	0	0	<4	<4	<4	0	<4	0	<4	<4
$40,001+	0	0	0	0	<4	<4	<4	<4	<4	<4
Total	34	93	84	110	152	168	116	56	125	41

Fig. 6.3
Distribution of Landed Values among
Ontario Self-employed Fishermen, 1990/91

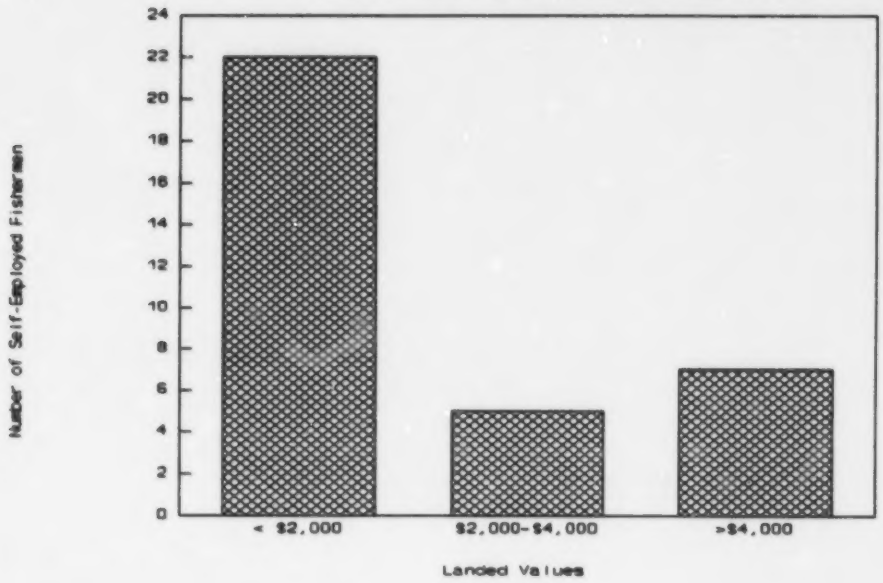

Table 6.4
LANDINGS, LANDED VALUES AND FISHING EFFORT, BY SELF-EMPLOYED FISHERMEN
NORTHWESTERN ONTARIO, 1990/91.

Landed Value Range	Number of Fishermen	Averages Per Fishermen			
		Deliveries	Weeks	Weight	Total Payments
$0-$2,000	22	5.2	2.2	568	1032
$2,001-$4,000	5	17.2	6.2	1520	2434
>$4,001	7	25.8	9.3	4188	6319
Total	34	11.2	4.3	1453	2326

Fig. 6.4
Northwest Ontario Landings by Major Lakes
1990/91 Total = 60 tonnes

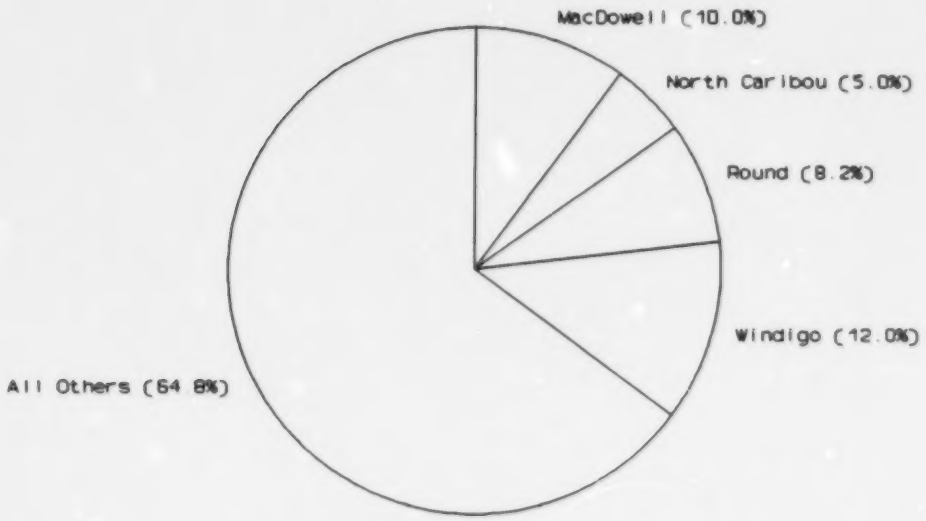

Fig. 6.5
Northwest Ontario Landed Values by Major Lakes
1990/91 Total = $79 000

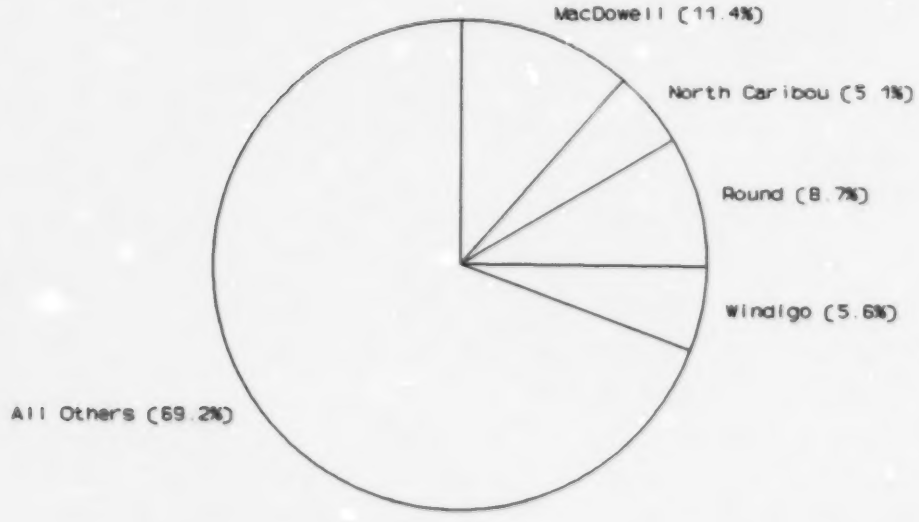

Table 6.5

LANDINGS BY MAJOR LAKES
NORTHWESTERN ONTARIO, 1990/91.
(live weight equivalent tonnes)

Species	MacDowell	Round	Windigo	North Caribou	All Others	Total
Whitefish	0	0	6	0	15	21
Pickerel	6	4	1	2	20	32
Northern Pike	0	1	1	1	4	6
Sturgeon	0	0	0	0	1	1
Others	0	0	0	0	0	0
Total	6	5	7	3	38	60

Table 6.6

LANDED VALUES BY MAJOR LAKES
NORTHWESTERN ONTARIO, 1990/91.
($000's)

Species	MacDowell	Round	Windigo	North Caribou	All Others	Total
Whitefish	0	0	3	0	12	15
Pickerel	9	6	1	4	36	56
Northern Pike	0	1	1	1	3	5
Sturgeon	0	0	0	0	4	4
Others	0	0	0	0	0	0
Total	9	7	4	5	54	79

Fig. 6.6
Northwest Ontario Landings Trend

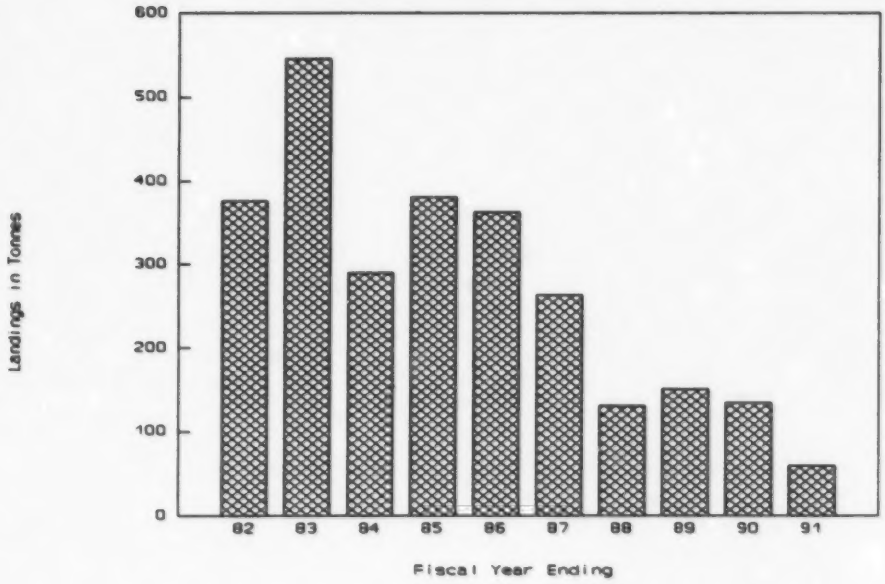

Table 6.7

NORTHWESTERN ONTARIO
TEN YEAR LANDINGS TREND.
(live weight equivalent tonnes)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	172	251	120	151	143	86	24	14	27	21
Pickerel	159	213	118	175	160	115	72	114	84	32
Northern Pike	39	68	41	43	43	51	27	20	21	6
Mullet	2	4	1	0	0	0	0	0	0	0
Sturgeon	3	9	8	8	16	11	5	2	1	1
Others	1	1	1	3	1	1	2	1	1	0
Total	376	546	289	380	362	263	130	150	133	60

Fig. 6.7
Northwest Ontario Landed Values Trend

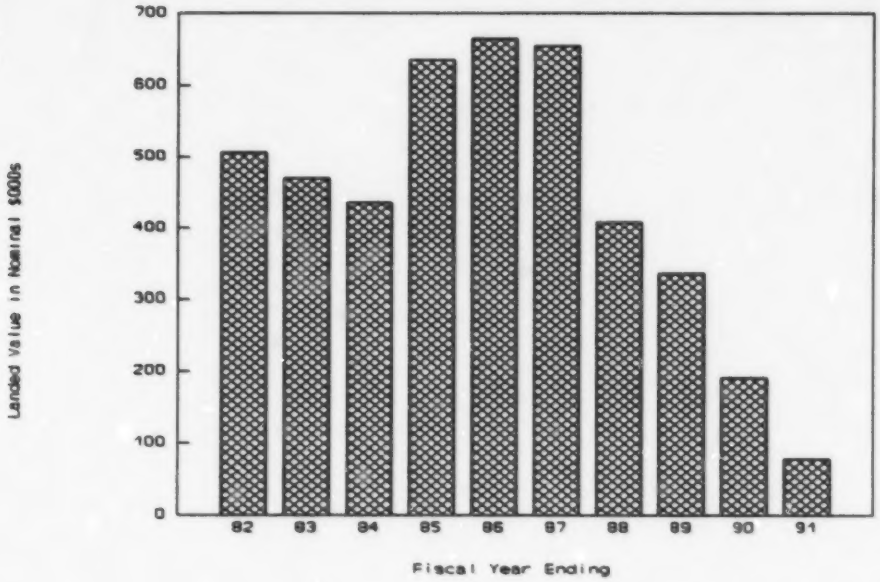

Table 6.8

NORTHWESTERN ONTARIO
TEN YEAR LANDED VALUES TREND.
(nominal $000's)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	114	121	78	141	119	65	29	12	25	15
Pickerel	360	290	278	399	376	424	299	285	143	56
Northern Pike	18	22	26	29	28	60	28	17	14	5
Mullet	0	1	<1	0	0	0	0	0	0	0
Sturgeon	13	35	51	65	141	104	48	22	8	4
Others	0	<1	1	2	<1	1	4	1	2	0
Total	506	470	435	635	665	654	408	336	191	79

Fig. 6.8
Northwest Ontario Landings Trend
by Major Lakes

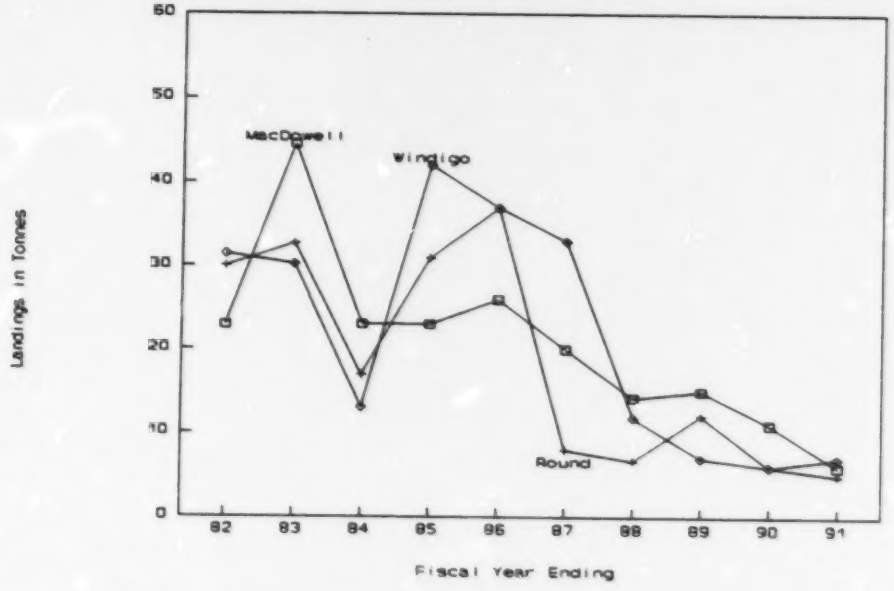

Fig. 6.9
Northwest Ontario Landed Values Trend
by Major Lakes

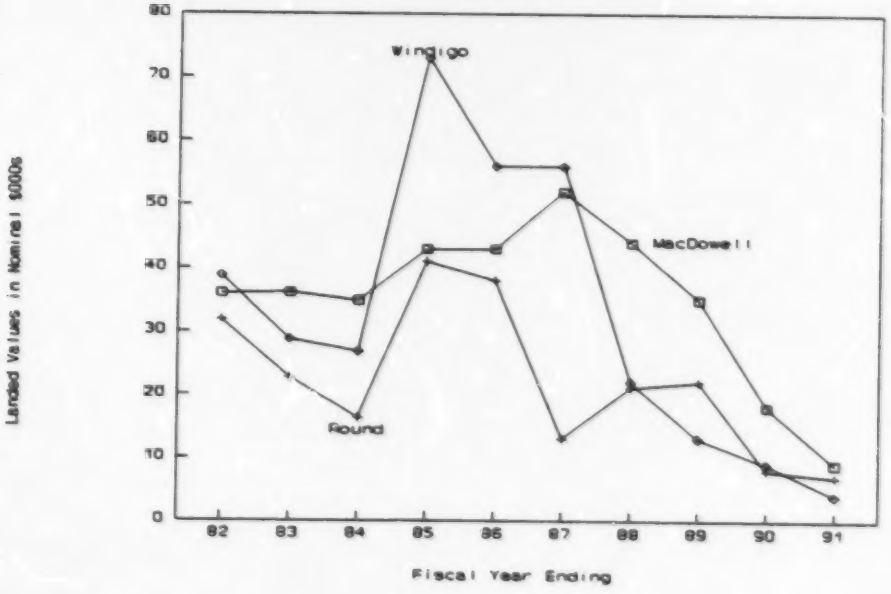

Table 6.9

NORTHWESTERN ONTARIO
TEN YEAR LANDINGS TREND BY MAJOR LAKES.
(live weight equivalent tonnes)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
MacDowell	23	45	23	23	26	20	14	15	11	6
Mameigwess	8	7	5	0	6	6	12	6	7	0
North Caribou	14	2	27	24	25	12	4	0	0	3
Round	30	33	17	31	37	8	7	12	6	5
St. Joseph	41	21	25	0	18	5	3	8	4	1
Windigo	32	30	13	42	37	33	12	7	6	7
Others	228	409	180	260	213	179	79	102	99	38
Total	376	546	289	380	362	263	130	150	133	60

Table 6.10

NORTHWESTERN ONTARIO
TEN YEAR LANDED VALUES TREND BY MAJOR LAKES.
(nominal $000's)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
MacDowell	36	36	35	43	43	52	44	35	18	9
Mameigwess	14	6	4	0	12	16	31	10	9	0
North Caribou	17	1	35	35	36	21	13	0	0	4
Round	32	23	16	41	38	13	21	22	8	7
St. Joseph	71	22	53	0	49	8	5	16	5	2
Windigo	39	29	27	73	56	56	22	13	9	4
Others	455	390	300	243	401	488	272	240	142	53
Total	664	506	470	435	635	654	408	336	191	79

SECTION 7

NORTHWEST TERRITORIES

Fig. 7.1
N.W.T. Landings by Species
1990/91 Total = 1 794 tonnes

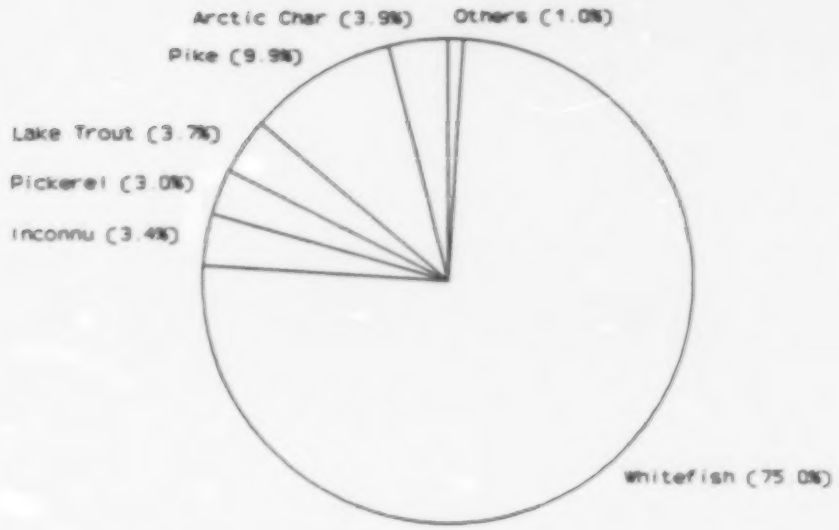

Fig. 7.2
N.W.T. Landed Values by Species
1990/91 Total = $2 000 000

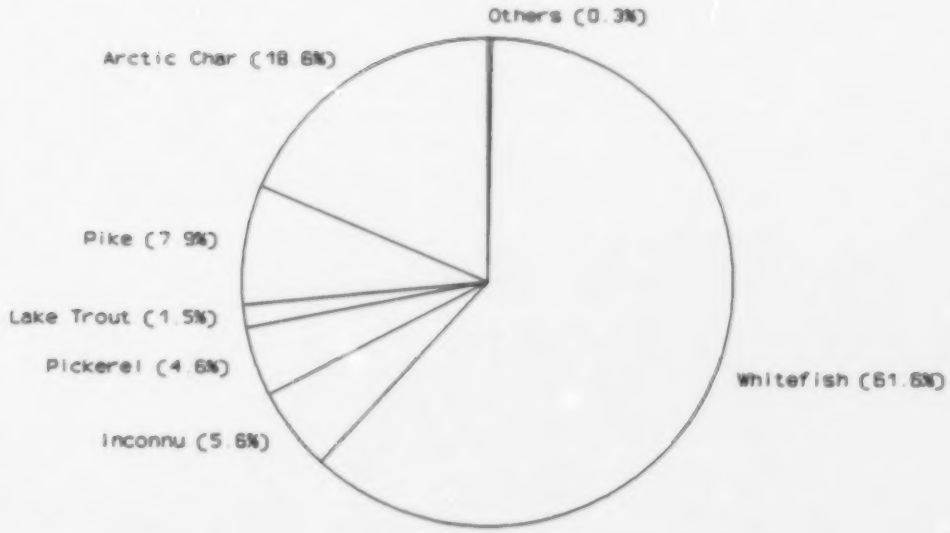

Table 7.1 LANDINGS, LANDED AND MARKETED VALUES BY SPECIES, NORTHWEST TERRITORIES, 1990/91

(live weight equivalent tonnes and $000's)

Species	Quantity	Landed Value	Marketed Value
Whitefish	1345	1231	2825
Pickerel	54	91	213
Lake Trout	67	30	115
Northern Pike	178	158	348
Arctic Char	70	372	524
Inconnu	62	112	169
Others	19	6	36
Total	1794	2000	4231

Table 7.2 ESTIMATED NUMBER OF PERSONS ENGAGED IN FISH HARVESTING OPERATIONS, NORTHWEST TERRITORIES, 1990/91.

Season	Self-employed	Crew Hands	Total
Summer Only	90	93	183
Winter Only	23	24	47
Both Seasons	29	30	59
Total	142	147	289

Table 7.3 DISTRIBUTION OF LANDED VALUES AMONG SELF-EMPLOYED FISHERMEN, NORTHWEST TERRITORIES TREND.

Landed Value Range	90/91	89/90	88/89	87/88	86/87	85/86	84/85	83/84	82/83	81/82
(nominal dollars)										
$0-$2,000	59	55	38	21	34	35	23	26	31	38
$2,001-$4,000	23	18	12	9	14	10	6	<4	9	10
$4,001-$6,000	9	12	11	9	<4	6	0	<4	11	10
$6,001-$8,000	11	7	8	7	5	0	6	7	4	<4
$8,001-$10,000	6	<4	<4	6	<4	<4	<4	<4	6	5
$10,001-$14,000	6	7	6	<4	6	<4	6	8	<4	<4
$14,001-$20,000	7	6	6	8	7	<4	<4	<4	10	7
$20,001-$30,000	5	6	<4	<4	6	8	5	9	6	4
$30,001-$40,000	<4	<4	<4	<4	<4	<4	<4	<4	<4	7
$40,001+	13	15	19	22	13	15	13	6	10	11
Total	142	132	108	89	92	82	66	69	89	97

Fig. 7.3
Distribution of Landed Values among
N.W.T. Self-employed Fishermen

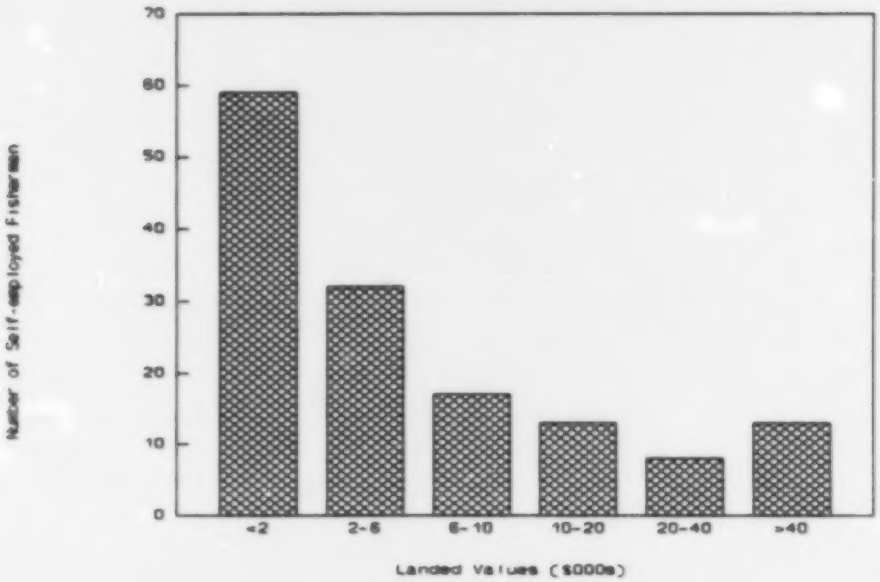

Table 7.4
LANDINGS, LANDED VALUES AND FISHING EFFORT, BY SELF-EMPLOYED FISHERMEN
NORTHWEST TERRITORIES, 1990/91.

Landed Value Range	Number of Fishermen	Averages Per Fishermen			
		Deliveries	Weeks	Weight	Total Payments
$0-$2,000	59	6.9	3.0	457	617
$2,001-$4,000	23	18.2	6.5	2088	2853
$4,001-$6,000	9	17.8	10.1	3265	5118
$6,001-$8,000	11	24.6	11.3	5659	6733
$8,001-$10,000	6	32.2	12.7	7155	9202
$10,001-$14,000	6	41.7	15.4	10520	11960
$14,001-$20,000	7	11.9	15.9	12621	18006
$20,001-$30,000	5	52.4	17.0	25623	24353
$30,001-$40,000	<4	26.7	17.3	17150	33783
$40,001+	13	95.4	31.8	71631	100092
Total	142	24.7	9.6	10373	14081

Fig. 7.4
N.W.T. Landings by Major Lakes
1990/91 Total = 1 794 tonnes

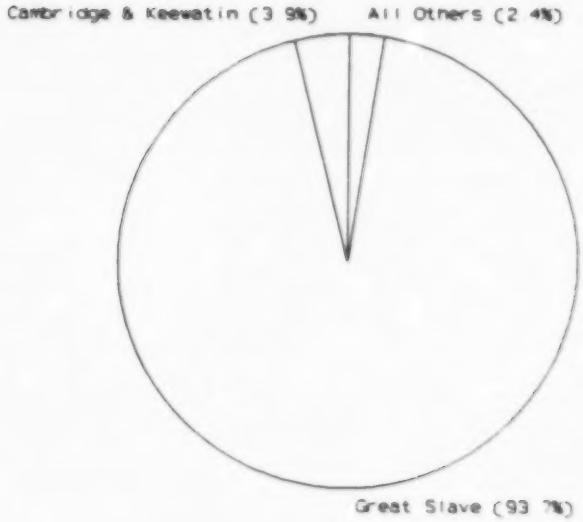

Fig. 7.5
N.W.T. Landed Values by Major Lakes
1990/91 Total = $2 000 000

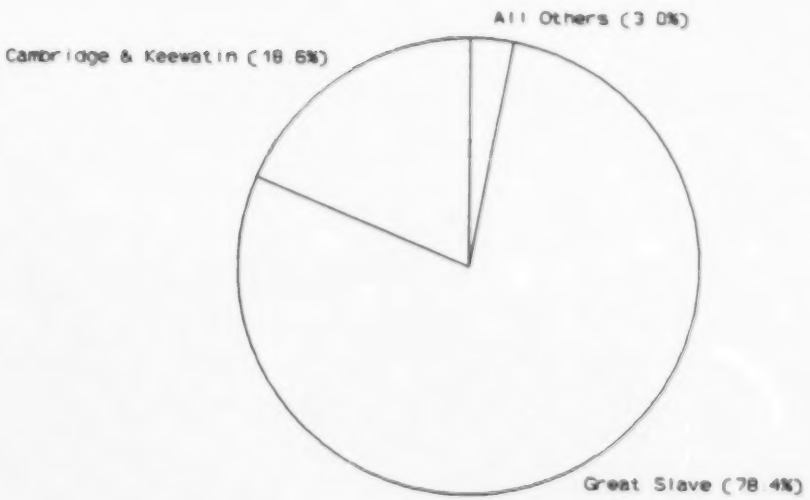

Table 7.5

LANDINGS BY MAJOR LAKES,
NORTHWEST TERRITORIES, 1990/91.
(live weight equivalent tonnes)

Species	Great Slave	Cambridge Bay	Keewatin Fisheries	All Others	Total
Whitefish	1332	0	0	13	1345
Pickerel	33	0	0	21	54
Lake Trout	67	0	0	0	67
Northern Pike	170	0	0	8	178
Arctic Char	0	46	24	0	70
Inconnu	60	0	0	2	62
Others	18	0	0	1	19
Total	1680	46	24	44	1794

Table 7.6

LANDED VALUES BY MAJOR LAKES,
NORTHWEST TERRITORIES, 1990/91.
($000's)

Species	Great Slave	Cambridge Bay	Keewatin Fisheries	All Others	Total
Whitefish	1218	0	0	13	1231
Pickerel	55	0	0	36	91
Lake Trout	30	0	0	0	30
Northern Pike	149	0	0	9	158
Arctic Char	0	265	107	0	372
Inconnu	109	0	0	3	112
Others	6	0	0	0	6
Total	1567	265	107	60	2000

Fig. 7.6
N.W.T. Landings Trend

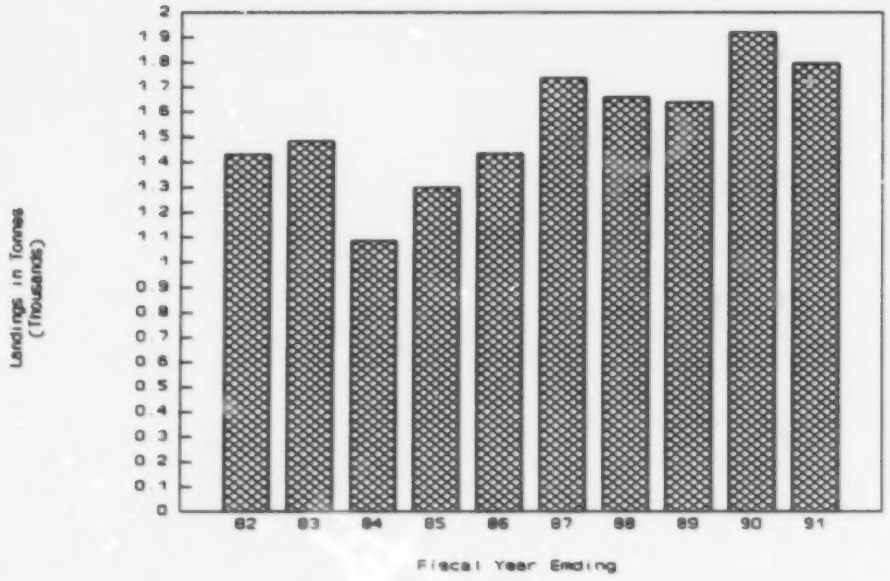

Table 7.7

NORTHWEST TERRITORIES
TEN YEAR LANDINGS TREND.
(live weight equivalent tonnes)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	1030	1124	811	954	1001	1315	1295	1260	1380	1345
Pickerel	58	55	45	37	36	29	23	39	45	54
Lake Trout	92	81	58	54	108	113	112	65	132	67
Northern Pike	135	138	94	120	146	137	107	128	181	178
Arctic Char	76	68	52	62	68	67	59	89	82	70
Inconnu	40	18	24	70	74	75	63	56	102	62
Others	0	0	0	0	0	0	0	0	0	19
Total	1431	1484	1085	1296	1433	1736	1658	1637	1921	1794

Fig. 7.7
N.W.T. Landed Values Trend

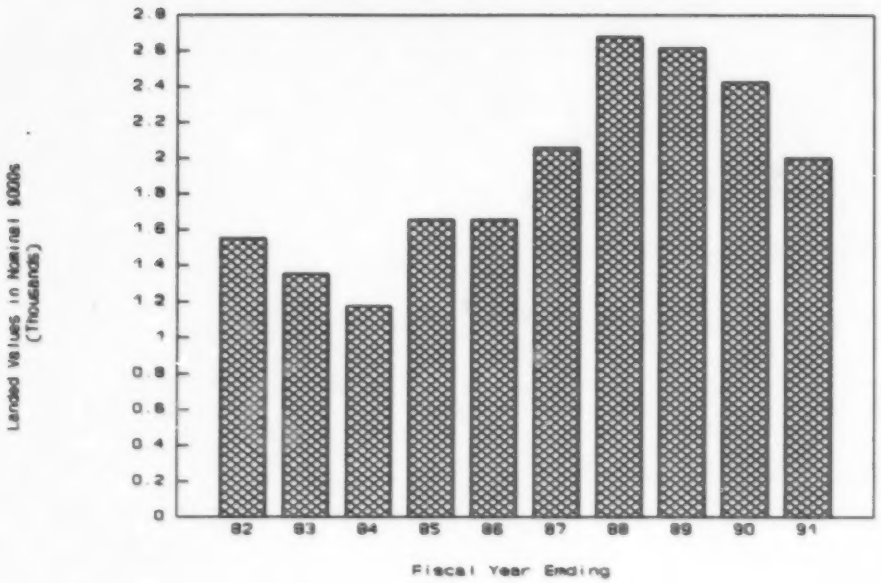

Table 7.8

NORTHWEST TERRITORIES
TEN YEAR LANDED VALUES TREND.
(nominal $000's)

Species	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Whitefish	894	865	571	907	916	1132	1668	1642	1512	1231
Pickerel	138	78	111	82	79	104	91	95	79	91
Lake Trout	76	57	88	76	116	112	151	82	124	30
Northern Pike	82	58	56	97	107	156	129	119	117	158
Arctic Charr	313	281	307	380	320	411	511	571	444	372
Inconnu	49	14	41	112	116	141	126	104	148	112
Others	0	0	0	0	0	0	0	0	0	6
Total	1552	1353	1174	1654	1654	2056	2676	2613	2424	2000

Fig. 7.8
N.W.T. Landings Trend
by Major Lake

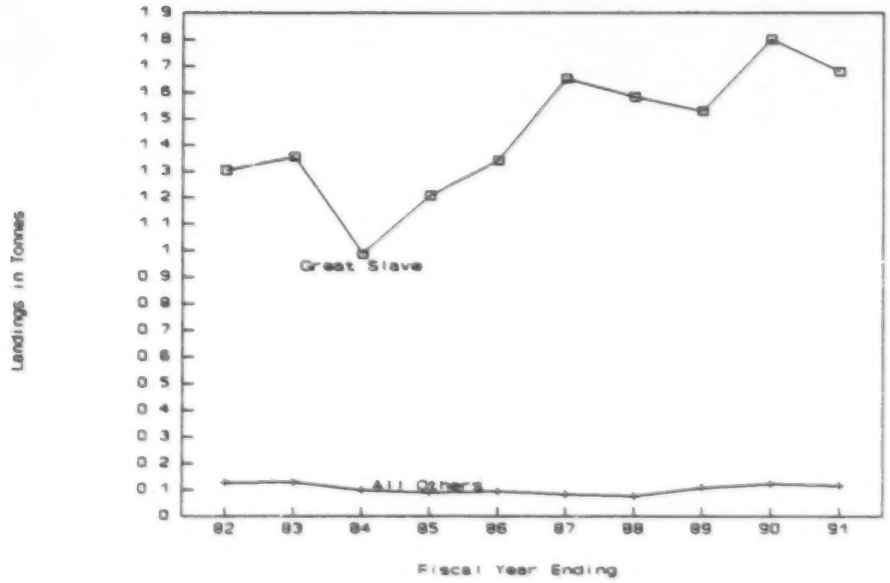

Fig. 7.9
N.W.T. Landed Values Trend
by Major Lakes

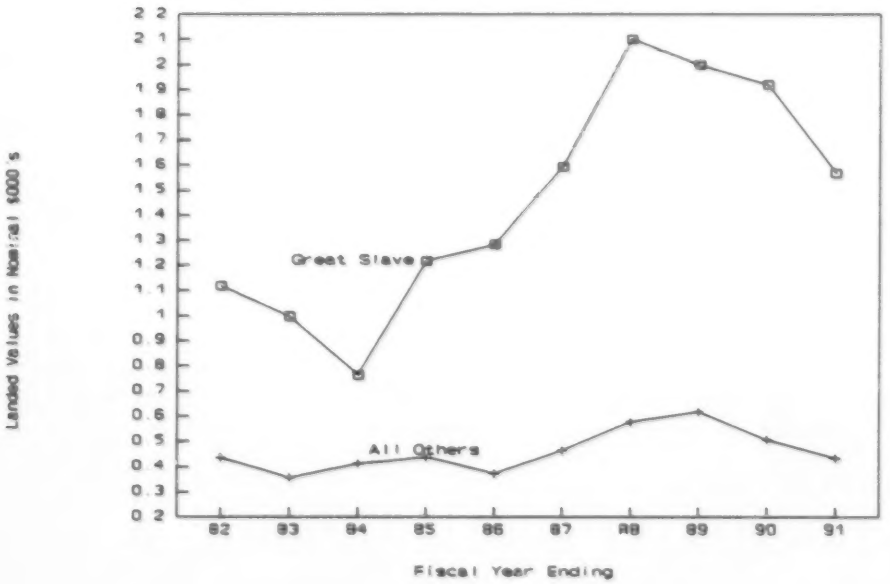

Table 7.9

NORTHWEST TERRITORIES
TEN YEAR LANDINGS TREND BY MAJOR LAKES.
(live weight equivalent tonnes)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Great Slave	1304	1356	987	1207	1341	1653	1583	1529	1800	1620
Cambridge Bay	49	43	47	49	44	50	45	44	41	46
Keewatin Fisheries	27	25	5	6	19	17	8	34	41	24
Others	50	60	46	34	30	16	22	30	39	44
Total	1431	1484	1085	1296	1433	1736	1658	1637	1921	1794

Table 7.10

NORTHWEST TERRITORIES
TEN YEAR LANDED VALUES TREND BY MAJOR LAKES.
(nominal $000's)

Lake	81/82	82/83	83/84	84/85	85/86	86/87	87/88	88/89	89/90	90/91
Great Slave	1117	997	763	1216	1283	1593	2100	1998	1919	1567
Cambridge Bay	200	179	278	309	204	299	390	295	238	265
Keewatin Fisheries	113	102	29	40	89	112	66	240	206	107
Others	122	75	104	89	78	52	119	81	60	60
Total	1552	1353	1174	1654	1654	2056	2676	2613	2424	2000